

THE CITY OF TIPTONVILLE, TENNESSEE
130 S. COURT STREET
TIPTONVILLE, TENNESSEE 38079
CLIFF BERRY, MAYOR

SHEET INDEX

- 1 Cover Sheet
2 Topographic Survey
3 Detailed Elevated Tank Site Plan
4 Detailed Elevated Tank Elevation
5 Water System Layout
6 Cedar St. Pump Replacement
7 Typical Details

GENERAL NOTES

1. TOPOGRAPHIC FEATURES WERE PROVIDED BY BARRON SURVEYING & MAPPING.
2. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING.
3. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
4. SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS TO PROVIDE POSITIVE DRAINAGE OF ALL AREAS GRADED OR DISTURBED BY THIS CONSTRUCTION. ALL FINISHED GRADING, SEEDING, SODDING, OR PAVING SHALL BE DONE IN SUCH A MANNER TO PREVENT THE PONDING OF WATER. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS. MAXIMUM SLOPE ON EARTH BANKS WITHOUT SPECIAL TREATMENT IS 3:1.
5. IF ANY STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
6. THE CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH FIT AND CONTINUOUS GRADE.

TANK NOTES

DESIGN

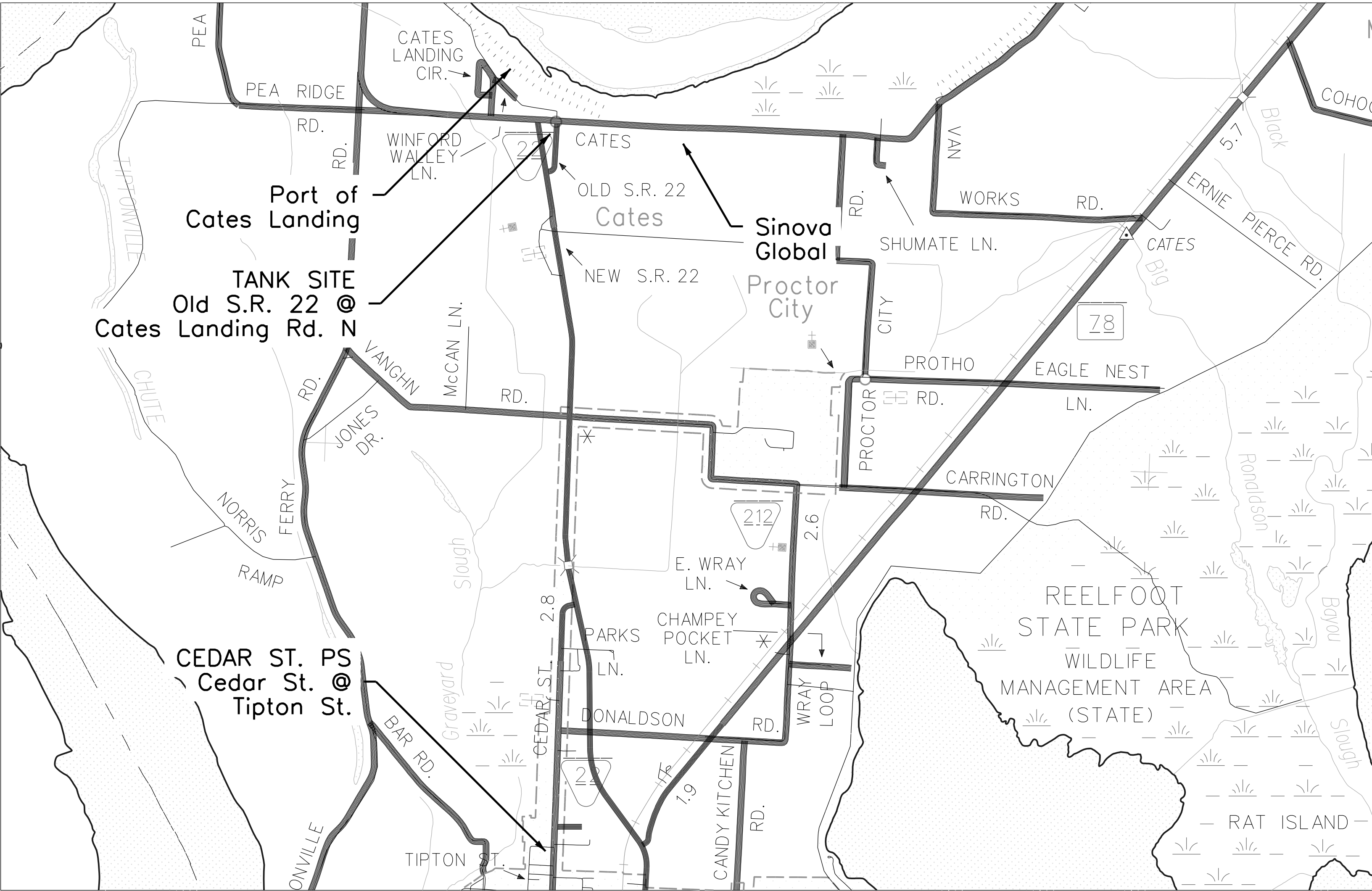
TANK AND TOWER SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE w/ AWWA D100 AND PROJECT SPECIFICATIONS.
WIND LOAD: 100 mph; D100 SEC. 3.1.4, LATEST REVISIONS
SNOW LOAD: 25 lb / ft; D100 SEC. 3.1.3.1, LATEST REVISIONS
SEISMIC LOAD: AS PER D100 SEC. 13 (SEISMIC ZONE 1)

MATERIALS

STEEL PLATE: ASTM A283 GR. C / A36
STRUCTURAL STEEL SHAPES: ASTM A36
LADDER RUNGS: ASTM A706

GENERAL

1. ACCESSORIES SHOWN ON ELEVATION DRAWING ARE ROTATED FOR CLARITY.
2. ALL LADDERS AND SAFETY CLIMB DEVICES SHALL CONFORM w/ CURRENT OSHA STANDARDS.
3. SEE PROJECT SPECIFICATIONS FOR SHOP AND FIELD PAINT REQUIREMENTS.
4. STERILIZE TANK IN ACCORDANCE w/ AWWA C652 AND PROJECT SPECIFICATIONS.



EXISTING	LEGEND	PROPOSED
— SA —	SEWER MAIN	— SA —
— FM —	SS FORCE MAIN	— 12" FM —
⋈	SEWER VALVE	⋈
▽	PLUG AND BLOCK	▽
▽	REDUCER	▽
- - - - -	CASING	- - - - -
- - - - -	BORE PIT	- - - - -
- - - - -	SEPTIC FIELD	- - - - -
- - - - -	RIGHT-OF-WAY	- - - - -
- - - - -	PROPERTY LINE	- - - - -
- - - - -	PERM. EASEMENT	- - - - -
- - - - -	LEVEE	- - - - -
- - - - -	ASPHALT	- - - - -
- - - - -	GRAVEL	- - - - -
- - - - -	SIDEWALK	- - - - -
- - - - -	POWER POLE	- - - - -
- - - - -	BUILDING	- - - - -
- - - - -	STRUCTURE	- - - - -
- - - - -	FENCE	- - - - -
- - - - -	STORM DRAIN	- - - - -
- - - - -	WATER MAIN	- - - - -
- - - - -	FIRE HYDRANT	- - - - -
- - - - -	BLOW OFF	- - - - -
- - - - -	ELECTRIC	- - - - -
- - - - -	ELECTRIC (UNDERGROUND)	- - - - -
- - - - -	RAIL (FUTURE)	- - - - -

CONTRACT 122
DRA WATER SYSTEM IMPROVEMENTS
TO SUPPORT SINOVA GLOBAL

APPROVAL

The City approves the design of this project and agrees to own, operate, and maintain this project once in operation. There will be no negative effects to customers or the system.
City of Tiptonville Utilities

Kent Roberson 4/8/22
Kent Roberson, Superintendant of Utilities Date

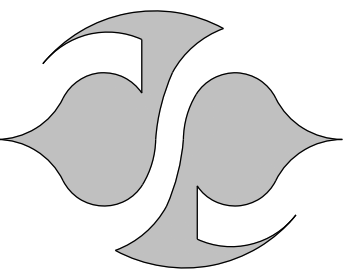
Prepared By:
Joel B. Spaulding & Company, Inc. - Consulting Engineers
3322 West End Avenue, Suite 106
Nashville, Tennessee 37203
(615) 255-7766 | info@joelbspaulding.com
www.joelbspaulding.com

TO BE CONSTRUTED WITH FUNDS
PROVIDED BY THE DELTA REGIONAL
AUTHORITY INVESTMENT NO. TN-54275.



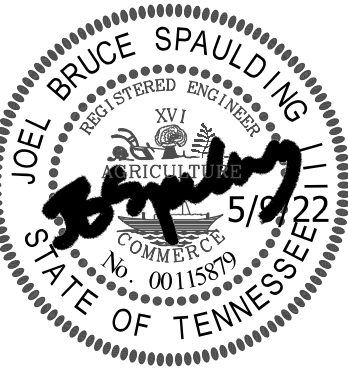
Know what's below.
Call before you dig.

Joel B. Spaulding & Company, Inc.
Consulting Engineers
Bruce Spaulding, PE | J.B. Spaulding, PE, LEED AP



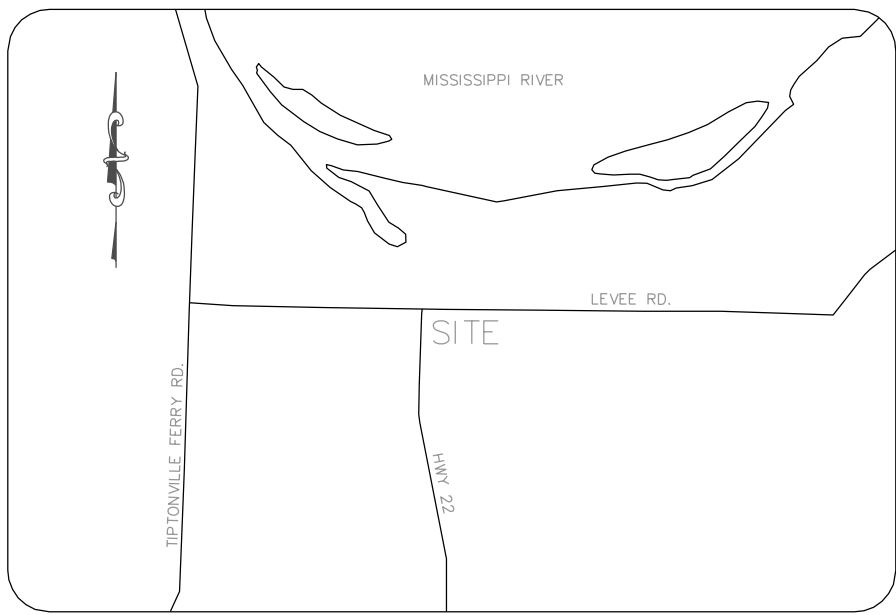
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The City of Tiptonville, Lake County, TN
DRA Water System Improvements
to Support Sinova Global
Cover Sheet



PLAN STATUS
4/11/22 TDEC DWR Subm.
xx/xx/22 TDEC DWR Appr.

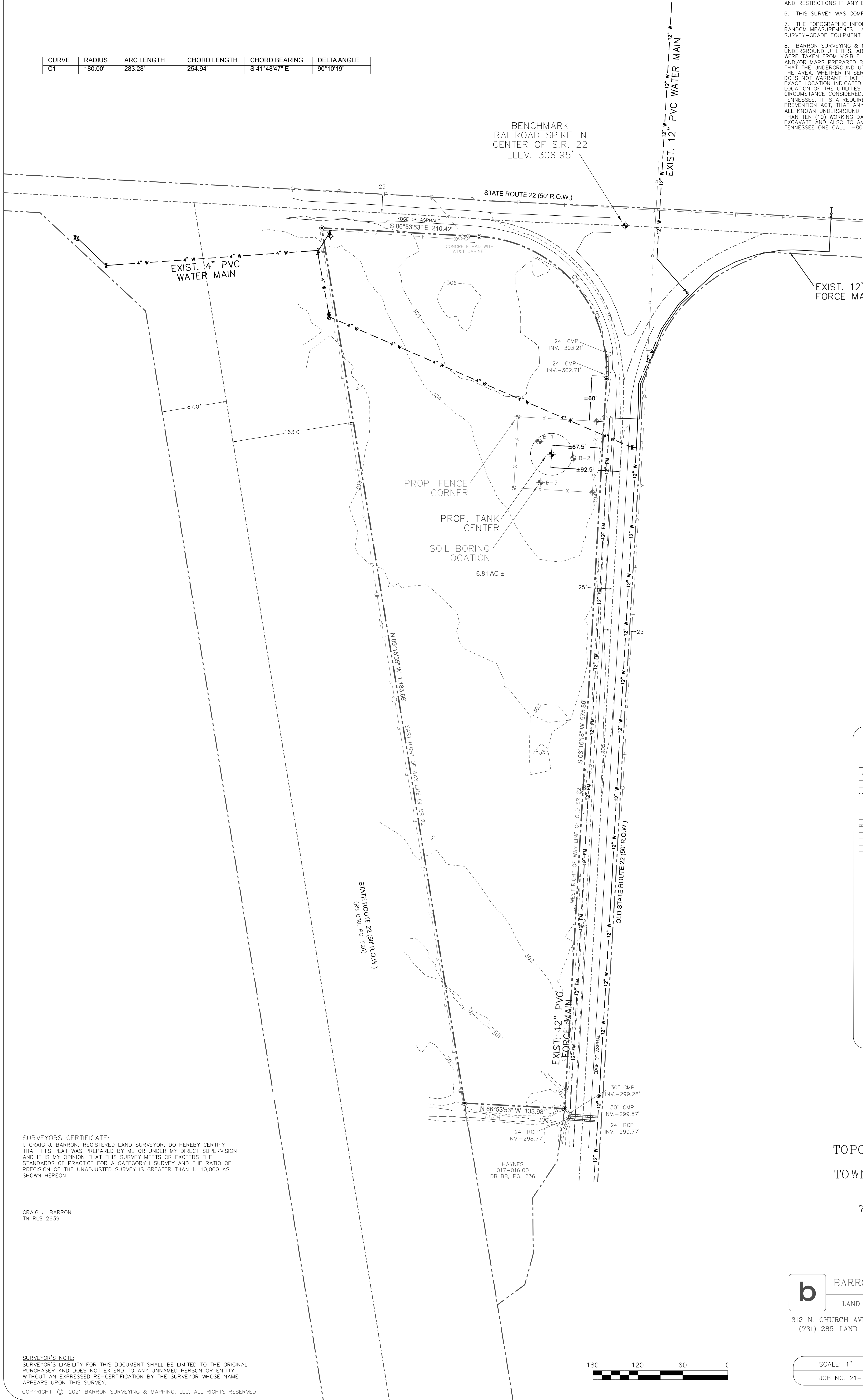
DATE	DESCRIPTION
JBS	JBS
DESIGN	DRAWN
SCALE (H):	None
SCALE (V):	None
JOB No.:	Contract 122
DATE:	May 2022



PROPERTY INFORMATION:
DEED REFERENCE:
BEING THE PROPERTY CONVEYED TO THE TOWN OF TIPTONVILLE IN RECORD BOOK 057, PAGE 384, R.O.L.C.
TAX MAP REFERENCE:
BEING PARCEL NO. 015.02 AS SHOWN ON LAKE COUNTY TAX MAP NO. 017.

- NOTES:**
- A PORTION OF THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM (SPECTRA SP85 RTK GNSS RECEIVER-DUAL FREQUENCY). A REDUNDANCY OF MEASUREMENTS WERE TAKEN TO INSURE THE POSITIONAL ACCURACY OF MEASURED POINTS. RTK RELATIVE POSITIONAL ACCURACY IS :
HORIZONTAL: 10mm + 1ppm
VERTICAL : 15mm + 1ppm
 - THIS SURVEY WAS BASED UPON THE AFORESAID DEEDS AND THE BEST AVAILABLE EVIDENCE (MONUMENTATION AND POSSESSION) FOUND IN THE FIELD.
 - BEARINGS AND DISTANCES SHOWN HEREON BASED ON THE TENNESSEE STATE PLANE GRID (TN 4100 ZONE, NAD 83).
 - A PORTION OF THIS PROPERTY IS LOCATED IN ZONE "X-SHADED" (AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD) AND ZONE "AE" (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD; BASE FLOOD ELEVATIONS DETERMINED) PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD BOUNDARY AND FLOODWAY MAP COMMUNITY PANEL NO. 47054C0211E & NO. 47095C0100C DATED 06/04/10).
 - THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, AND RESTRICTIONS IF ANY EXIST.
 - THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE SEARCH.
 - THE TOPOGRAPHIC INFORMATION SHOWN HEREON WAS DERIVED FROM RANDOM MEASUREMENTS. ALL DATA WAS COLLECTED WITH ELECTRONIC SURVEY-GRADE EQUIPMENT. THE CONTOUR INTERVAL IS 1'.
 - BARRON SURVEYING & MAPPING HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GROUND AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THIS SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, WHETHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON TYPE, SIZE AND LOCATION OF THE UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED, DETAILED VERIFICATION OF EXISTENCE, IN TENNESSEE, IT IS A REQUIREMENT, PER THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT, THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN (3) NOR MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBILITY HAZARD OR CONFLICT. TENNESSEE ONE CALL 1-800-366-1967.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	180.00'	283.28'	254.94'	S 41°48'47" E	90°10'19"



SURVEYOR'S CERTIFICATE:
I, CRAIG J. BARRON, REGISTERED LAND SURVEYOR, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IT IS MY OPINION THAT THIS SURVEY MEETS OR EXCEEDS THE STANDARDS OF PRACTICE FOR A CATEGORY I SURVEY AND THE RATIO OF PRECISION OF THE UNADJUSTED SURVEY IS GREATER THAN 1:10,000 AS SHOWN HEREON.

CRAIG J. BARRON
TN RLS 2639

SURVEYOR'S NOTE:
SURVEYOR'S LIABILITY FOR THIS DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITY WITHOUT AN EXPRESSED RE-CERTIFICATION BY THE SURVEYOR WHOSE NAME APPEARS UPON THIS SURVEY.
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LEGEND

- BOUNDARY
 - RECORD
 - FENCE
 - CENTER OF ROAD
 - EASEMENT
 - SETBACK
 - UNDERGROUND WATER
 - UNDERGROUND GAS
 - SANITARY SEWER
 - STORM SEWER
 - UNDERGROUND ELECTRIC
 - OVERHEAD ELECTRIC
 - FIBER OPTIC
 - BUILDING
- 1/2" IRON ROD SET w/ ID CAP
 - STAMPED "BARRON RLS 2639"
 - IRON ROD FOUND (UNLESS OTHERWISE NOTED)
 - PK NAIL (SET)
 - ANGLE POINT (NO MONUMENT SET)
 - RIGHT OF WAY MONUMENT
 - UTILITY POLE
 - GUY ANCHOR
 - ELECTRIC MANHOLE
 - ELECTRIC METER
 - LIGHT POLE
 - TRANSFORMER
 - ELECTRICAL JUNCTION BOX
 - WATER METER
 - WATER VALVE
 - WATER FAUCET
 - FIRE HYDRANT
 - STAND PIPE
 - SEWER MANHOLE
 - SEWER CLEANOUT
 - GAS METER
 - GAS VALVE
 - TELEPHONE PEDESTAL
 - FIBER OPTIC MARKER
 - HANDICAP PARKING
 - BENCHMARK; POINT OF INTEREST

TOPOGRAPHIC SURVEY OF THE TOWN OF TIPTONVILLE PROPERTY

7th CIVIL DISTRICT,
LAKE CO., TN

b

BARRON SURVEYING & MAPPING

LAND SURVEYING • MAPPING • PLANNING

312 N. CHURCH AVE.
(731) 285-1AND

DYERSBURG, TN 38024
cbarron@tnsurveyor.com
www.tnsurveyor.com

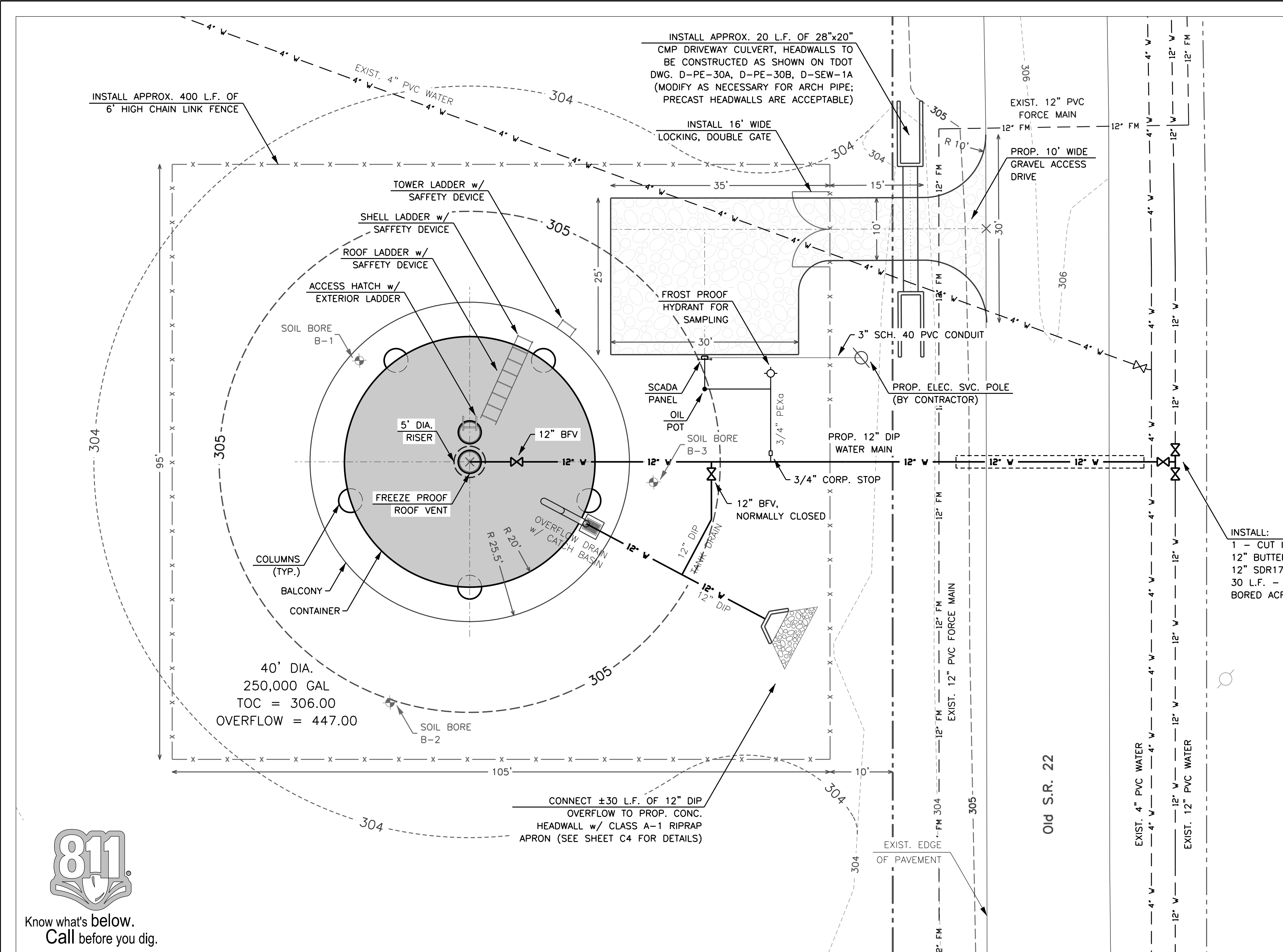
SCALE: 1" = 60'

JOB NO. 21-218

DATE: 11/22/21

DRAWN BY: CJB





LOCATION INFORMATION (APPROX.)

DRIVEWAY INTERSECTION w/ OLD S.R. 22
LAT: 36.442883
LONG: -89.477768

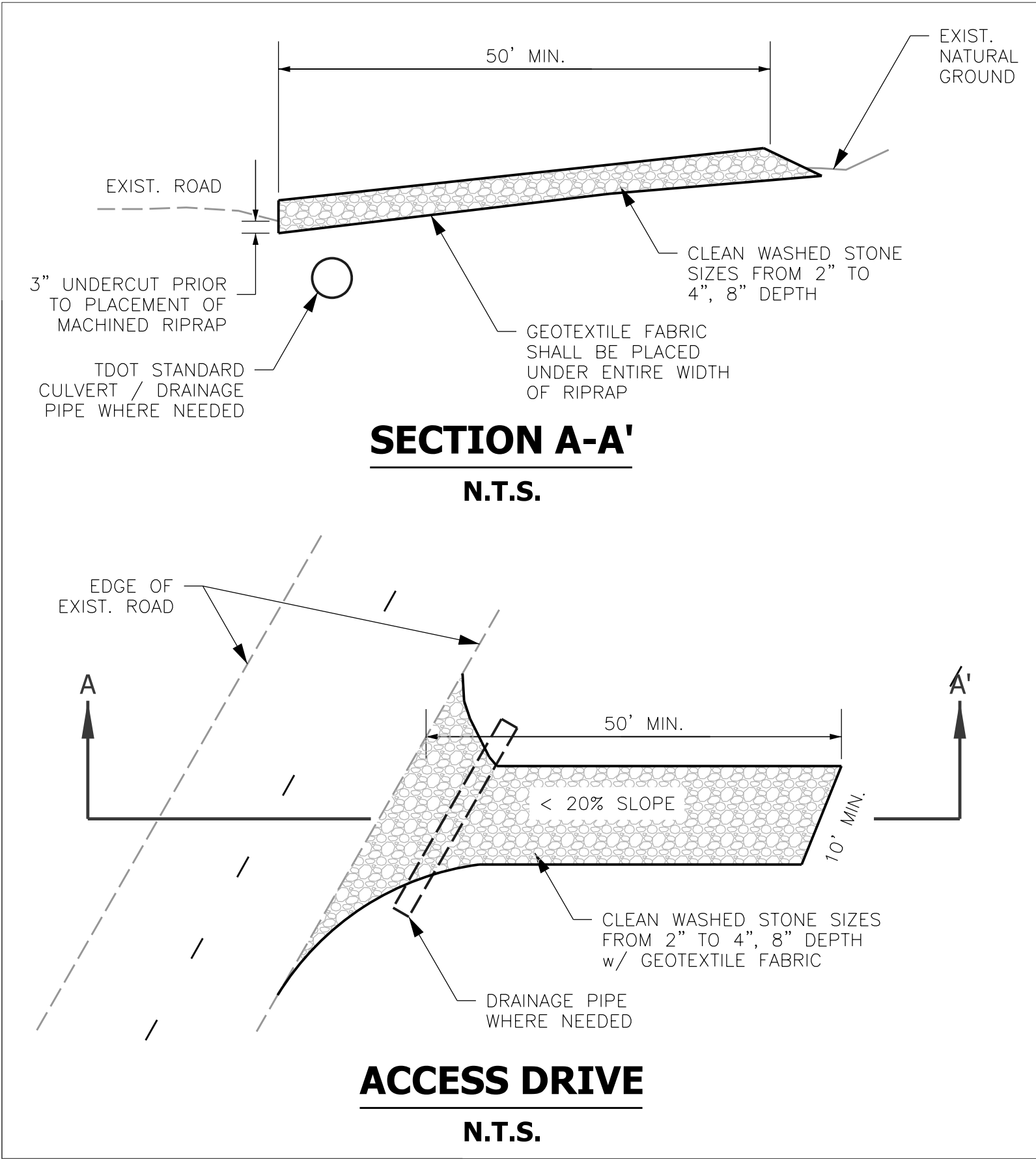
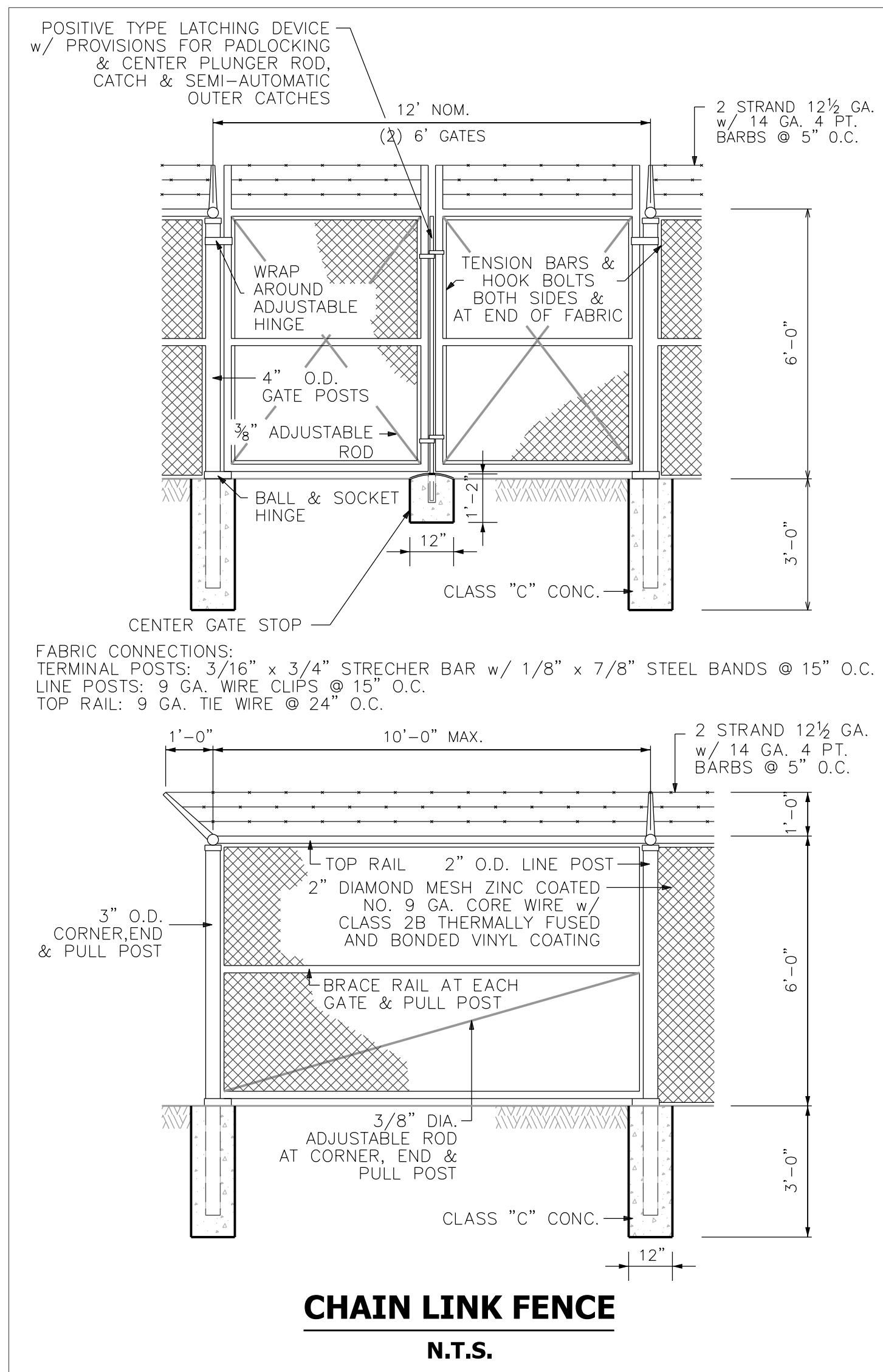
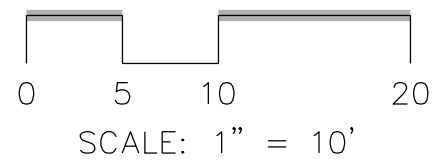
CENTER OF 40' DIA. TANK
LAT: 36.442786
LONG: -89.478051

SOIL BORE B-1
LAT: 35.907554
LONG: -86.657845

SOIL BORE B-2
LAT: 35.907554
LONG: -86.657845

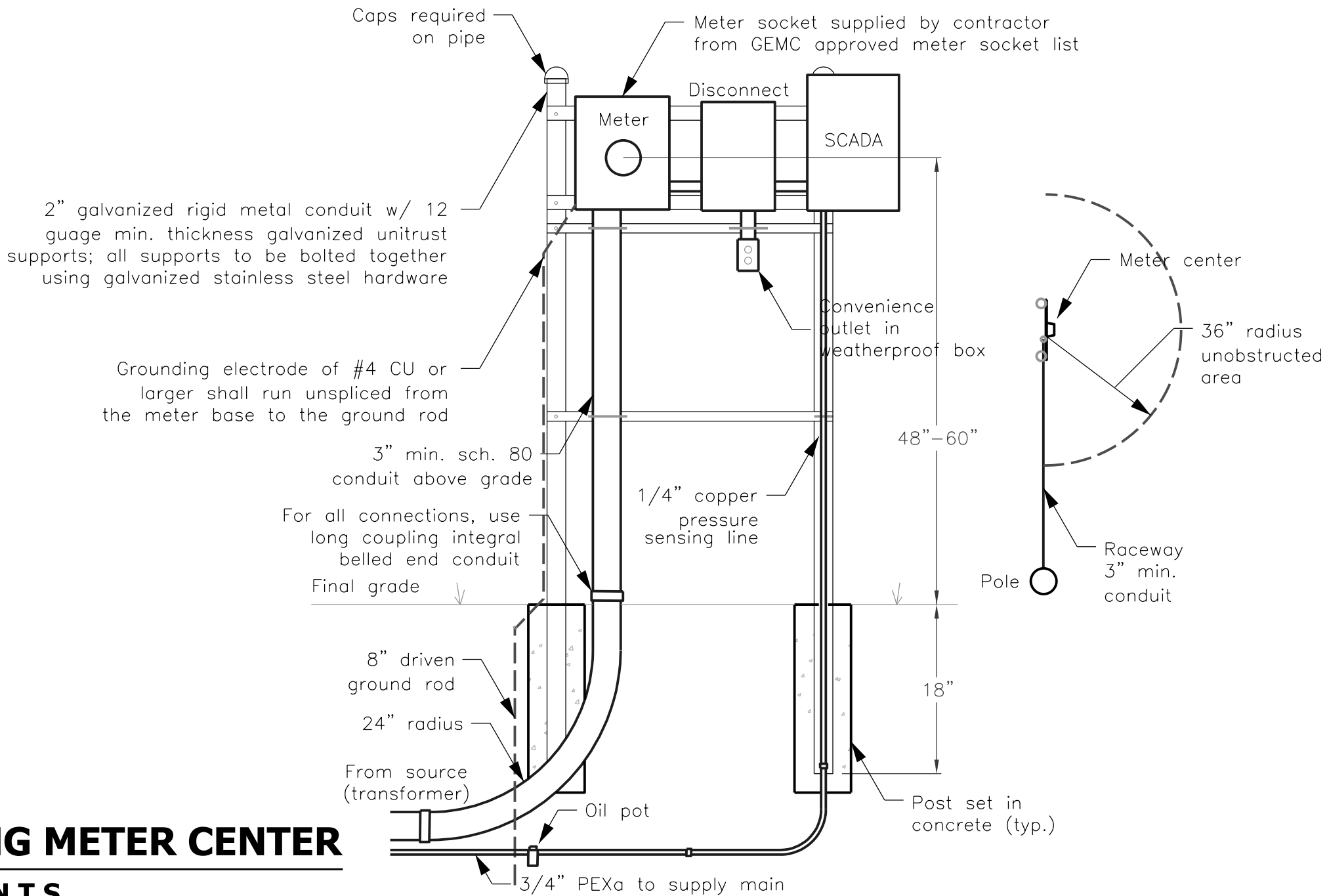
SOIL BORE B-3
LAT: 35.907554
LONG: -86.657845

INSTALL:
1 - CUT IN 12\"/>

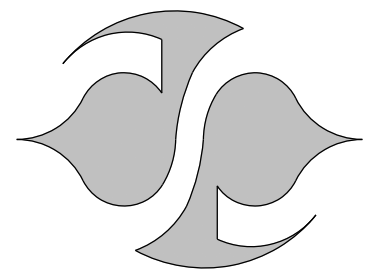


- NOTES:
- * Be sure to call Tennessee One Call before digging or opening ditches at (800) 351-1111 or 811
- GEMC will furnish and install the following materials at the service pole:
 - Conduit up the service pole, to include all related hardware.
 - Service conductor from transformer to meter pedestal.
 - Contractor will open ditch from service pole or junction box to meter location with the following specifications:
 - Where ditch length will exceed 250 ft, see GEMC engineering representative prior to opening ditch.
 - Hand dig ditch when within 5 ft of transformer.
 - Depth sufficient to bed conduit with service conductors 24 in below final grade.
 - Where impractical to obtain 24 in depth, see a GEMC engineering representative.
 - Contractor will backfill ditch after inspection by GEMC.
 - Continuous raceway from transformer to meter base will be furnished and installed by contractor to the following specifications:
 - Conduit size is to be 3 in as specified below with appropriate fittings and/or bushings as required. For all conduit connections, use long, integral belled end conduit.
 - Raceway below grade/between elbows is to be schedule 40 electrical PVC or schedule 80 electrical PVC conduit.
 - Elbows are to be schedule 80 electrical PVC with a sweeping radius of 24 in.
 - Conduit extending from meter base to 1 ft below grade is to be schedule 80 electrical PVC.
 - Where junction box (not shown) is present at service pole, see a GEMC engineering representative for specifications.
 - A polyvinyl, non-rot, or mildew-proof pull string with a minimum breaking strength of 200 lbs is to be installed inside the raceway.
 - Under certain loading and/or density conditions, an alternate sized conduit may be used with the approval of GEMC district office engineering representative.
 - The bottom of a weatherproof, UL-listed, multi-circuit disconnect shall be located no less than 2 ft above grade.
 - For information about conductors, conduit, and grounding, refer to National Electric Code.
 - See General Metering Requirements for additional metering information.
 - The location of free standing meter centers (FSMC) shall be at the sole discretion of GEMC engineering with the following constraints:
 - When a FSMC is serviced from a pole/overhead feed, the FSMC should be a minimum of 10 ft from the utility pole.
 - When a FSMC is placed in a residential development, the power source should originate from a pull box, not a pole.

FREE STANDING METER CENTER
N.T.S.

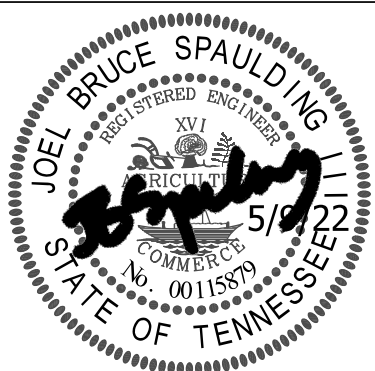


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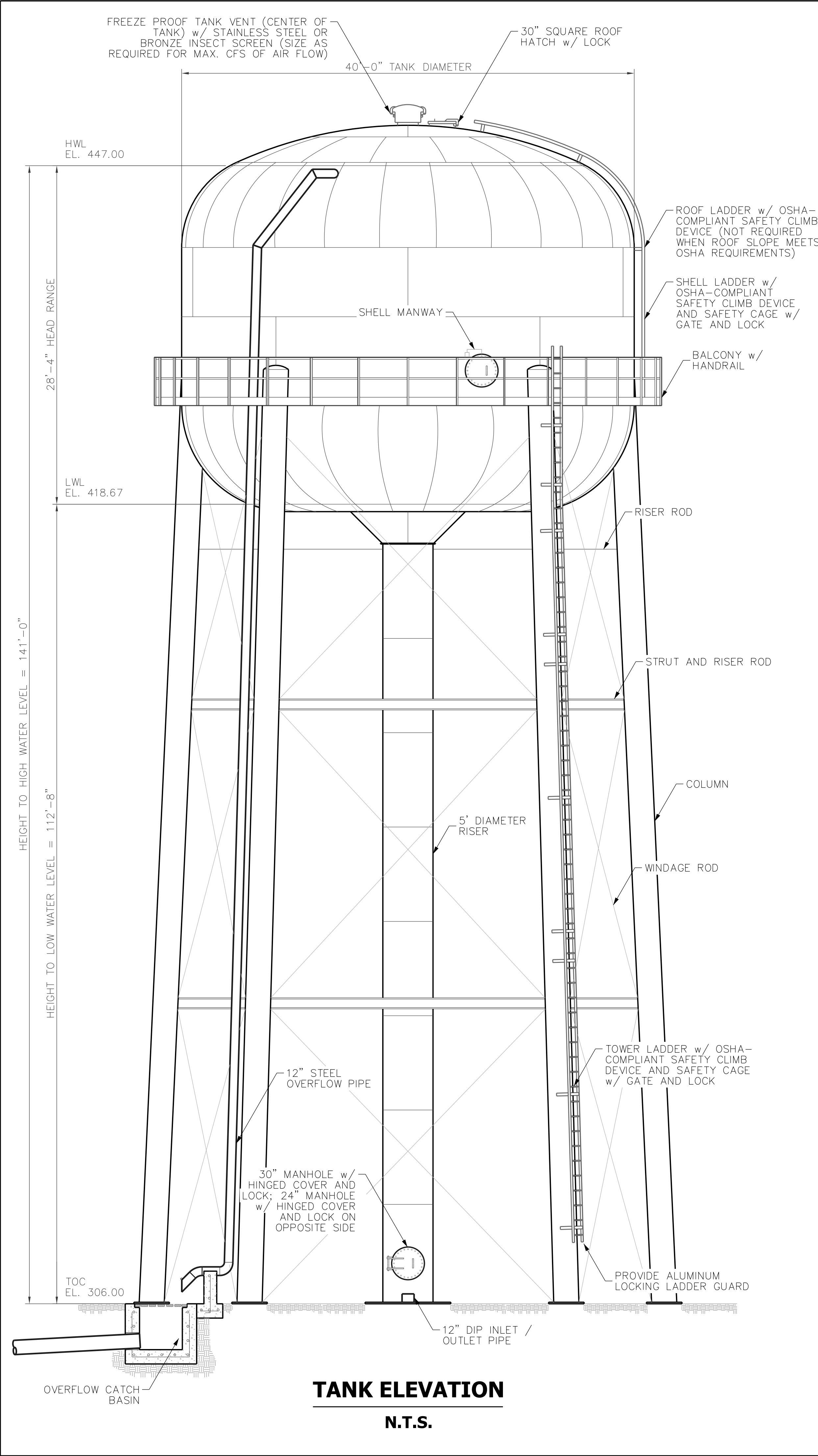
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The City of Tiptonville, Lake County, TN
DRA Water System Improvements
to Support Sinova Global
Detailed Elevated Tank Site Plan



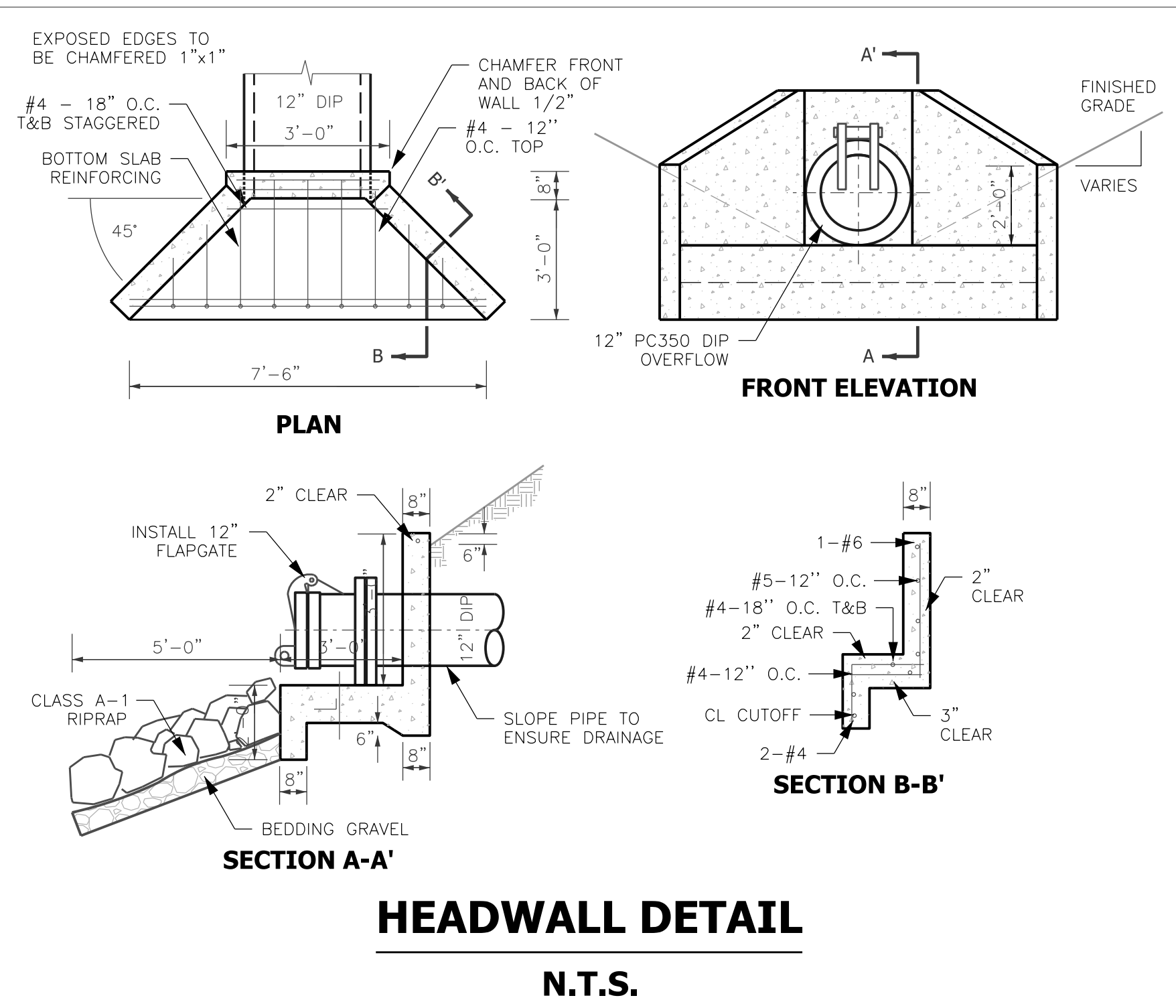
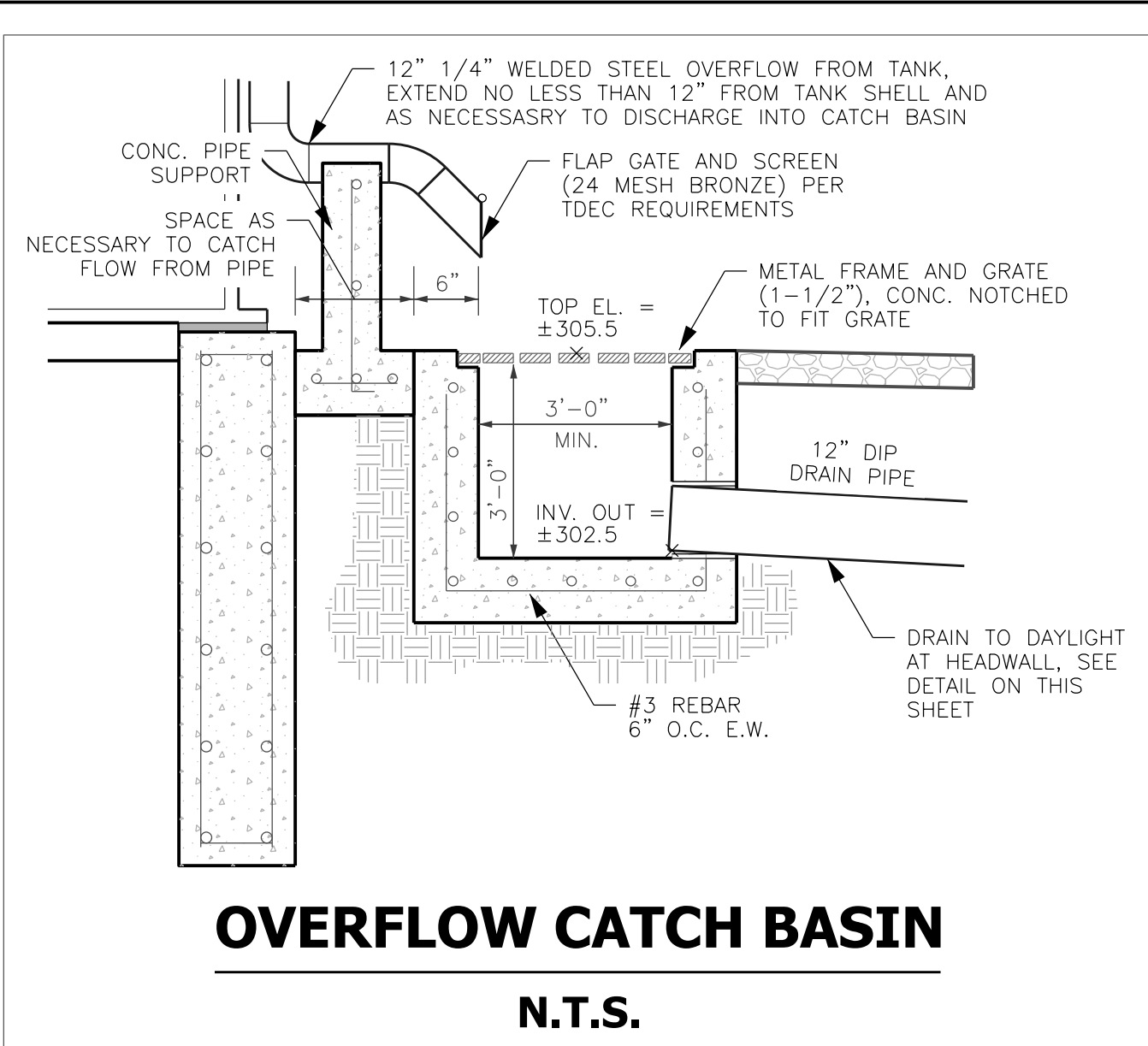
PLAN STATUS
4/11/22 TDEC DWR Subm.
xx/xx/22 TDEC DWR Appr.

DATE	DESCRIPTION	
JBS	JBS	BS
DESIGN	DRAWN	CHECKED
SCALE (H): As Shown		
SCALE (V): N/A		
JOB No.: Contract 122		
DATE: May 2022		

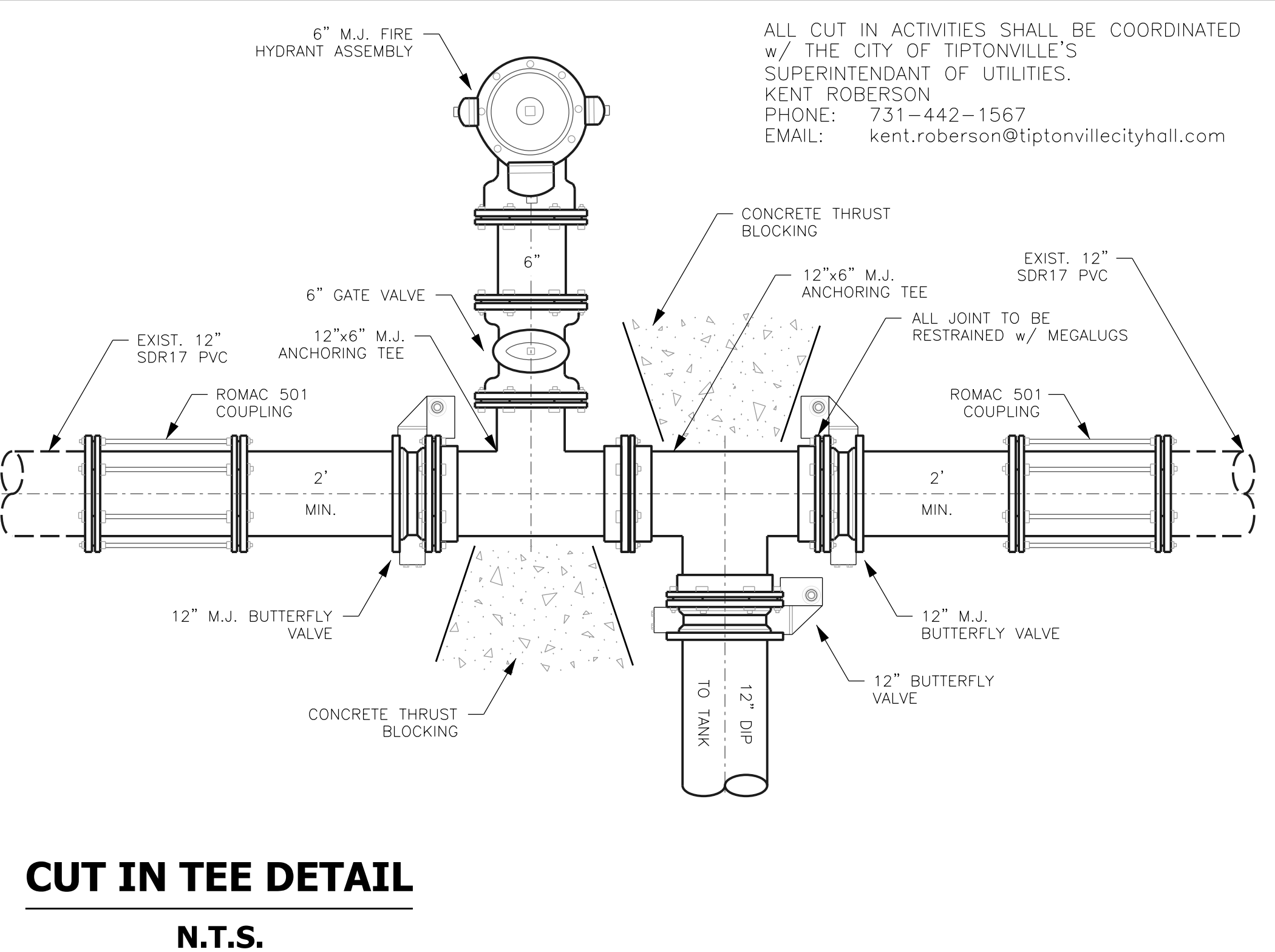


TANK ELEVATION
N.T.S.

- DESIGN CRITERIA
 - THE TANK AND SUPPORT STRUCTURE SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AWWA D100-11 AND THE PROJECT SPECIFICATIONS.
- MATERIALS
 - STEEL PLATE: ASTM A283 OR ASTM A36
 - STRUCTURAL SHAPES: ASTM A36 OR ASTM A992
 - LADDER RUNGS: ASTM A706
- GENERAL
 - ALL ACCESSORIES SHOWN ON THE ELEVATION DRAWING ARE ROTATED FOR CLARITY. SEE PREVIOUS SHEET FOR TANK AND ACCESSORY ORIENTATION.
 - THE NUMBER OF PERIMETER COLUMNS SHALL BE PER MANUFACTURER'S STANDARD DESIGN.
 - ALL LADDERS, LADDER SAFETY DEVICES, PLATFORMS, HANDRAILS, ETC. SHALL CONFORM TO CURRENT OSHA REGULATIONS.
 - TANK CONTRACTOR SHALL GROUT BENEATH COLUMN AND RISER BASE PLATES UPON COMPLETION OF ERECTION.
 - SURFACE PREPARATION AND COATING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - THE TANK SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C652-02.



NOTES:
1. Field assemble prior to cutting existing water main.
2. Downtime is limited to 2 hours. Residential customers will be out of service until installation is complete.
3. Flange by compression couplers shall be flange by mechanical joint coupling adapter.
4. Fittings shall be either flanged or mechanical joint type.
5. All below ground nuts, bolts, and miscellaneous steel shall be polyethylene encased as per AWWA C-105 or tape wrapped per AWWA C-209, 20 mils minimum in both cases.
6. Connection shall be made w/ retained mechanical joint solid sleeves (short or long pattern) Ductile Iron Class 350 or compression couplings.
7. The compression coupling shall be rated for a minimum working pressure of 250 psi and shall be equal to the Romac 501, Dresser Style No.'s 38, 138, or 162 (transition type), or Smith-Blair 441 straight and transition coupling. Rod and clamp compression coupling.
8. For severe angular pipe deflection, Romac Style RR501 repair coupling shall be used or approved equal.
9. PVC stubs shall be 2 feet (2') minimum in length and have a class and pressure rating equal to, or greater than, the existing water main.
10. At the Contractor's expense, additional fittings and pipe sections may be required by the Engineer to accommodate severe misalignments in the pipeline after it has been cut.



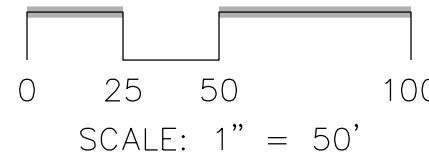
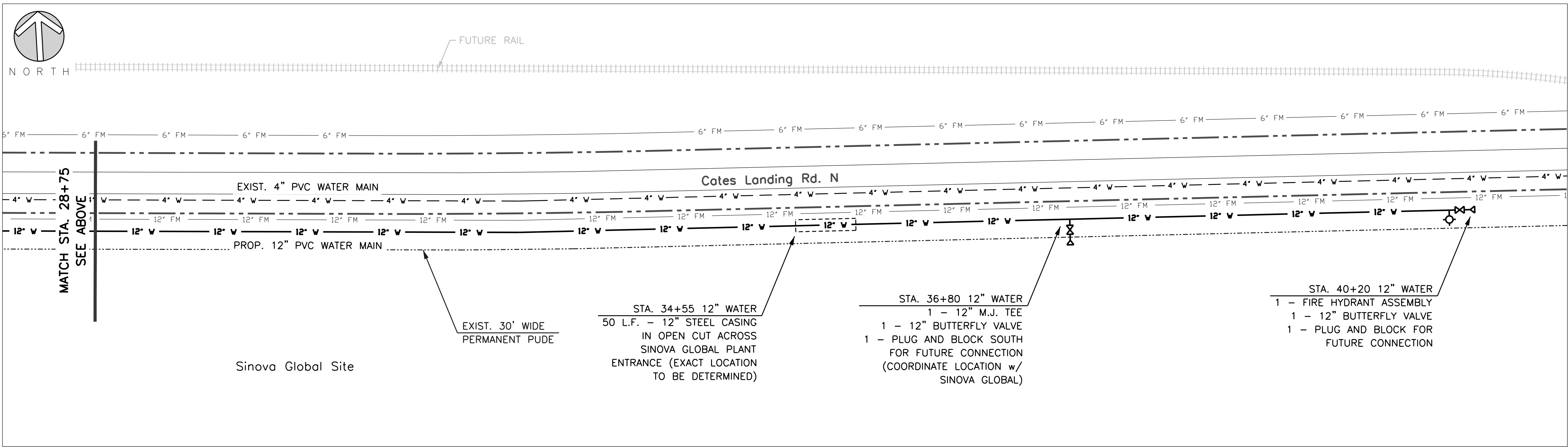
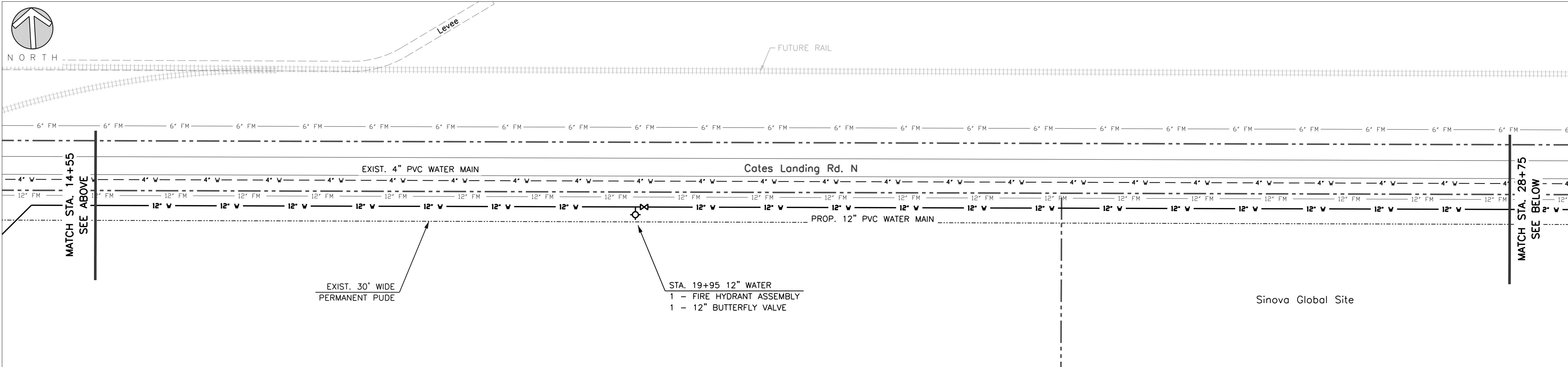
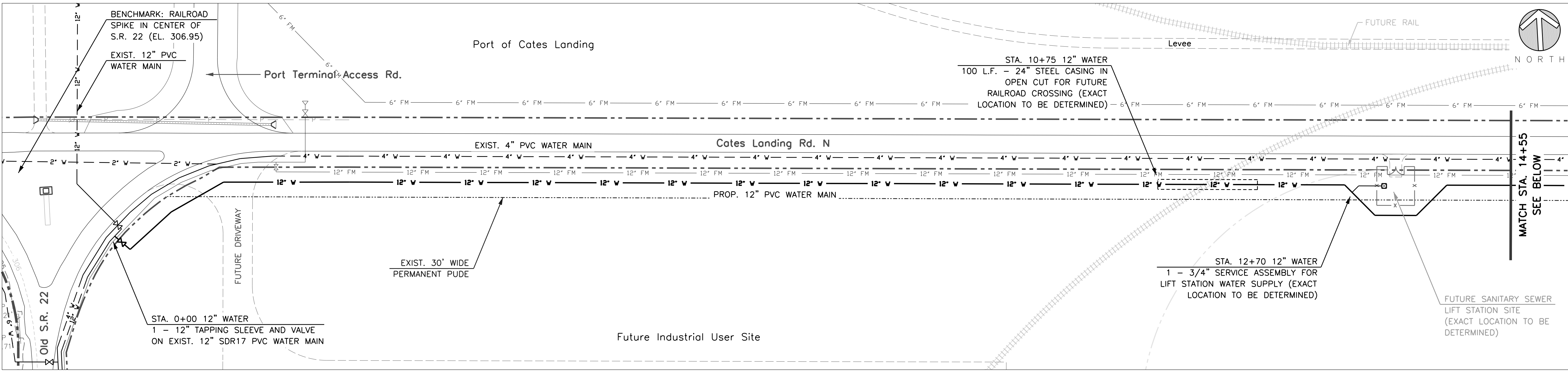
CUT IN TEE DETAIL
N.T.S.

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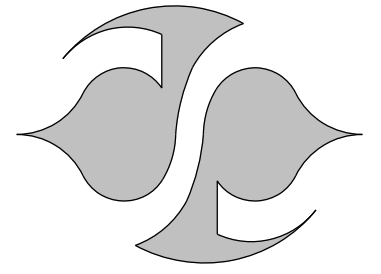
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The City of Tiptonville, Lake County, TN
DRA Water System Improvements
to Support Sinova Global
250,000 gal Toro-Ellipsoidal Tank Elevation

JOEL BRUCE SPAULDING REGISTERED ENGINEER No. 51422 COMMERCIAL 001158 STATE OF TENNESSEE		
PLAN STATUS 4/11/22 TDEC DWR Subm. xx/xx/22 TDEC DWR Appr.		
DATE	DESCRIPTION	
JBS	JBS	BS
DESIGN	DRAWN	CHECKED
SCALE (H): N/A		
SCALE (V): N/A		
JOB No.: Contract 122		
DATE: May 2022		
SHEET 4 OF 7		

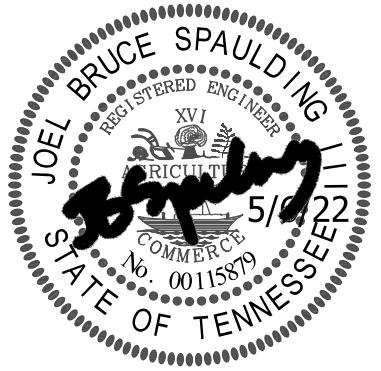


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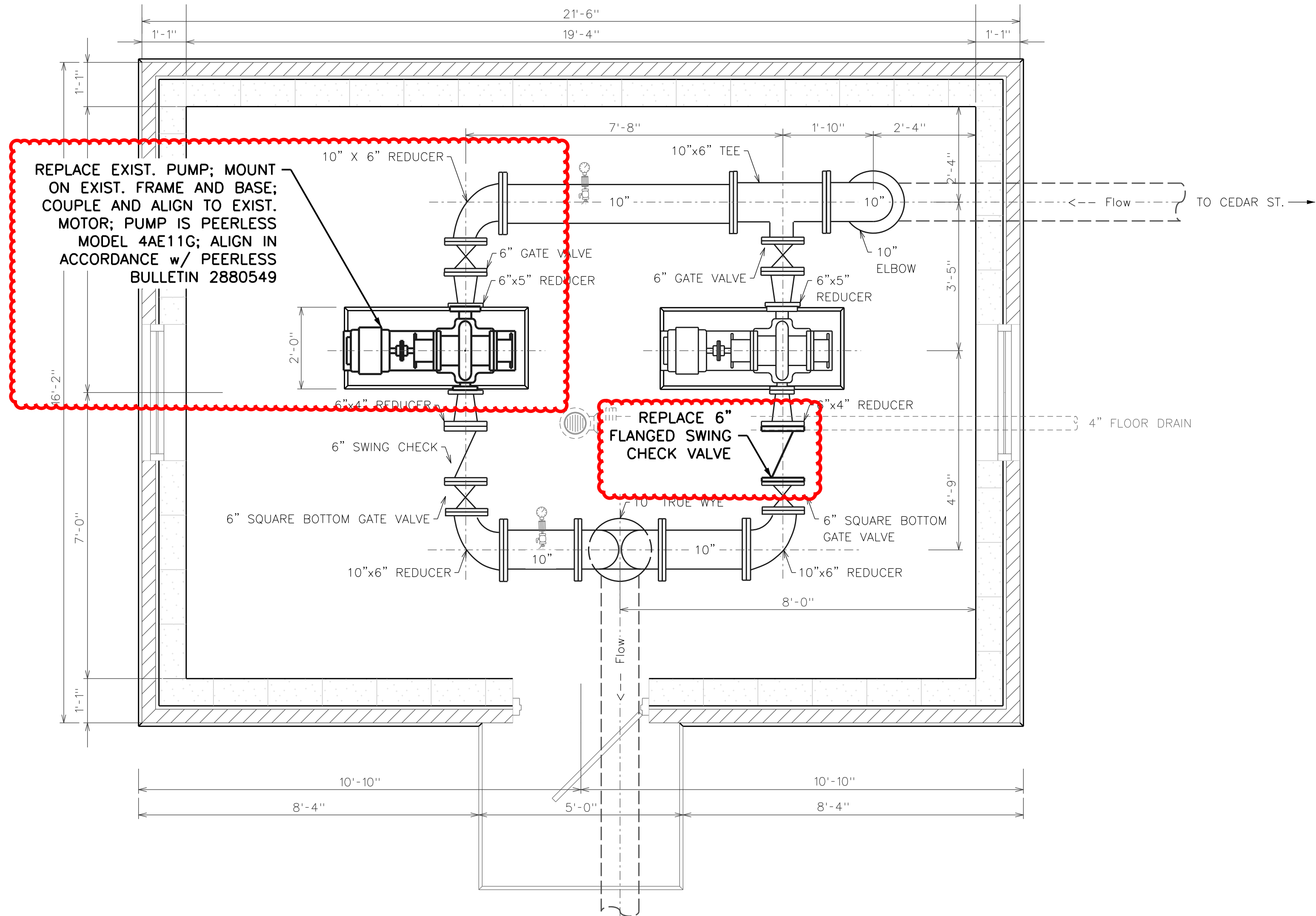
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**The City of Tiptonville, Lake County, TN
DRA Water System Improvements
to Support Sinova Global
Water System Layout**



PLAN STATUS
4/11/22 | TDEC DWR Subm.
xx/xx/22 | TDEC DWR Appr.

DATE		DESCRIPTION
JBS	JBS	BS
DESIGN	DRAWN	CHECKED
SCALE (H): 1" = 50'		
SCALE (V): N/A		
JOB No.: Contract 122		
DATE: May 2022		



2 PIPING PLAN
Scale: 1/2" = 1'-0"

NOTE

CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS, LOCATING CENTERLINES OF THE VERTICAL RUNS OF THE INLET AND OUTLET PIPES.

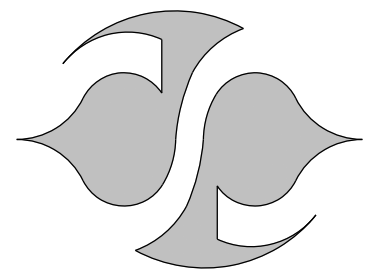
ALL FLANGES 150 LB

PUMP CHARACTERISTICS

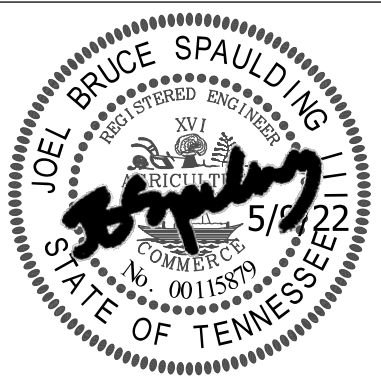
PUMP MODEL: PEERLESS 4AE11G
TYPE: HORIZONTAL SPLIT CASE
CAPACITY: 600 gpm
TOTAL HEAD: 100 ft
PUMP SPEED: 1,765 rpm
IMPELLER DIAMETER: 11.25 in (FULL)
POWER: 25 hp
FRAME / MODEL: 284T
ELECTRICAL SPEC.: 3 PHASE, 230 V, 60 Hz
ROTATION: LEFT HAND (CCW)
ENCLOSURE / TYPE: ODP
MOTOR: N/A (REUSE EXIST.)



1 VICINITY MAP
Not to Scale



The City of Tiptonville, Lake County, TN
DRA Water System Improvements
to Support Sinova Global
Cedar St. Pump Replacement



PLAN STATUS	
4/11/22	TDEC DWR Subm.
xx/xx/22	TDEC DWR Appr.

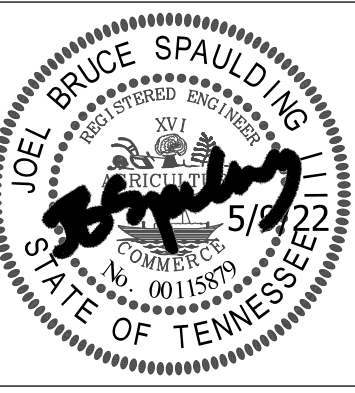
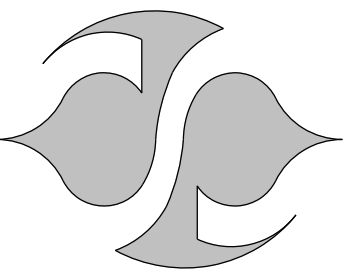
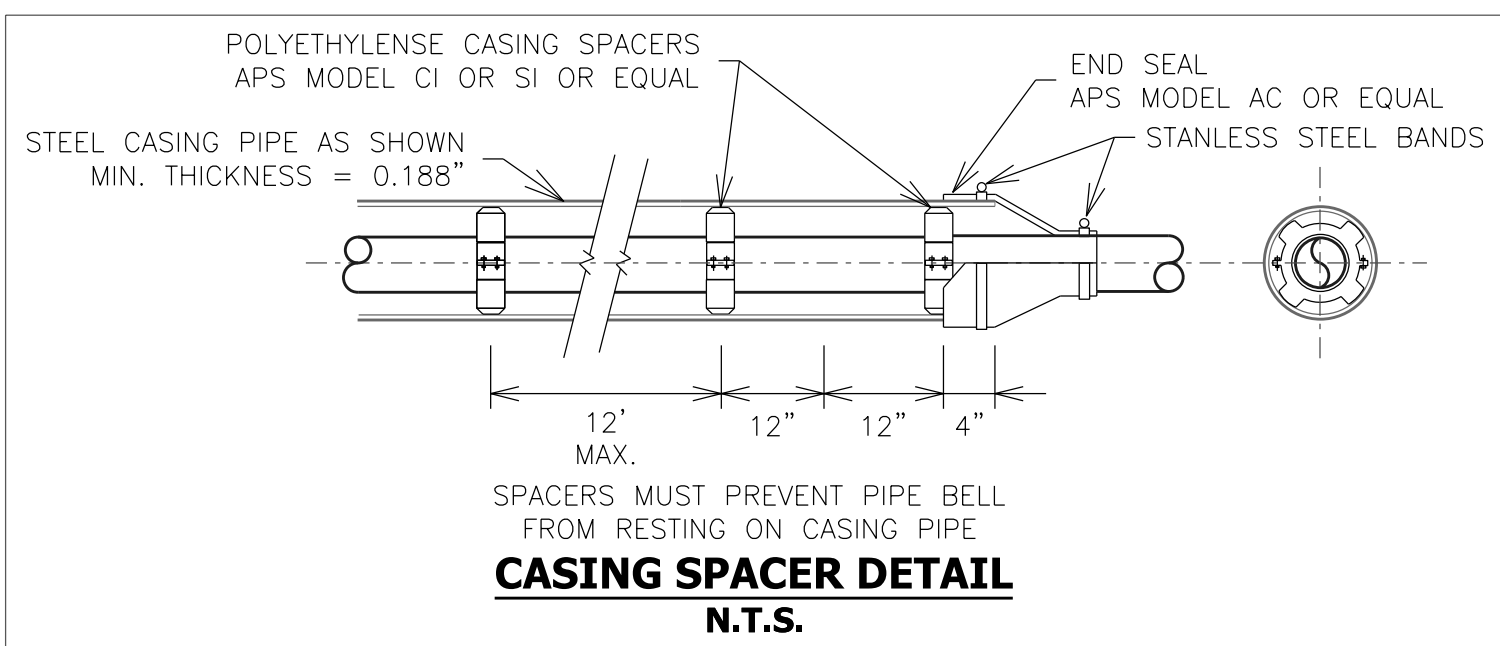
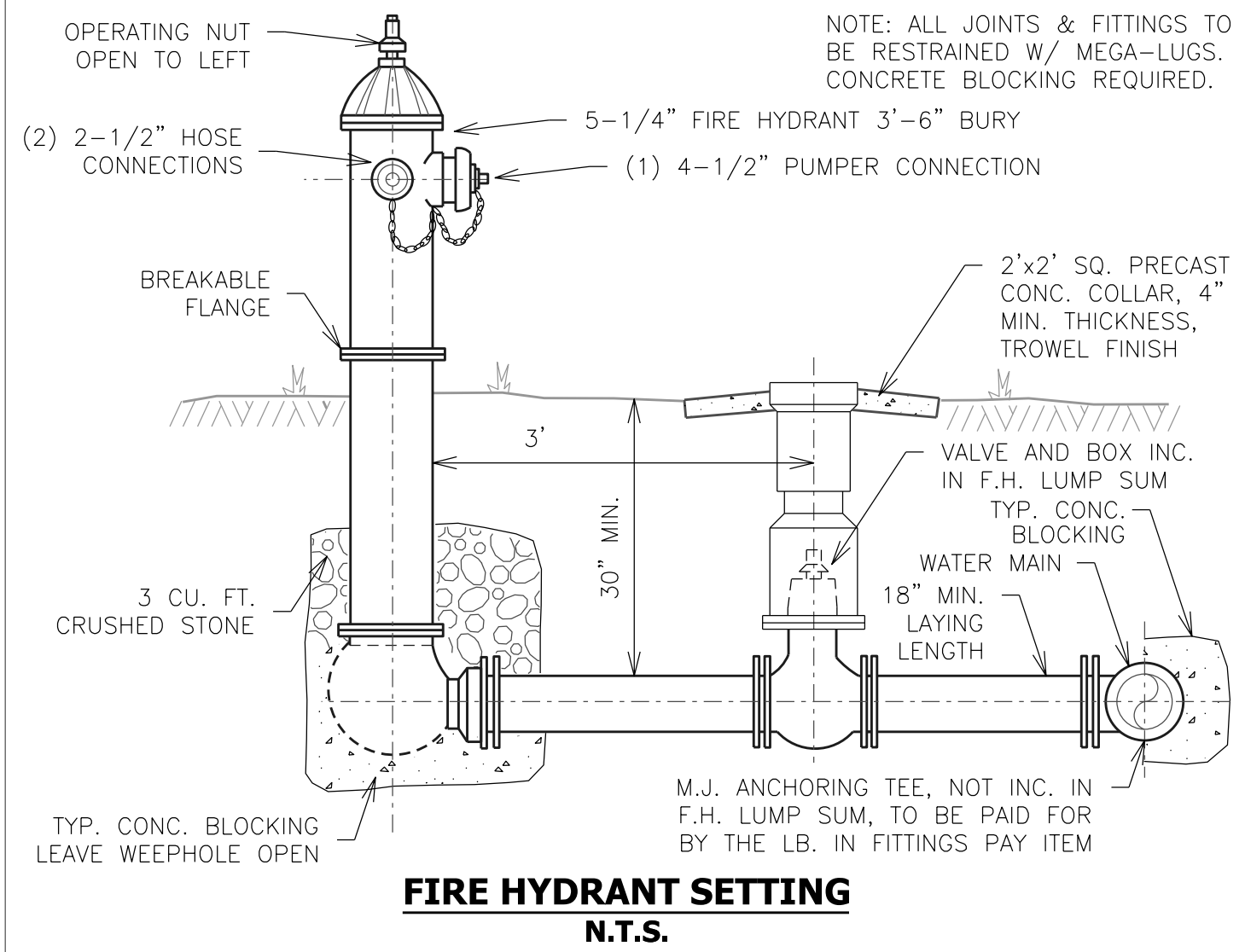
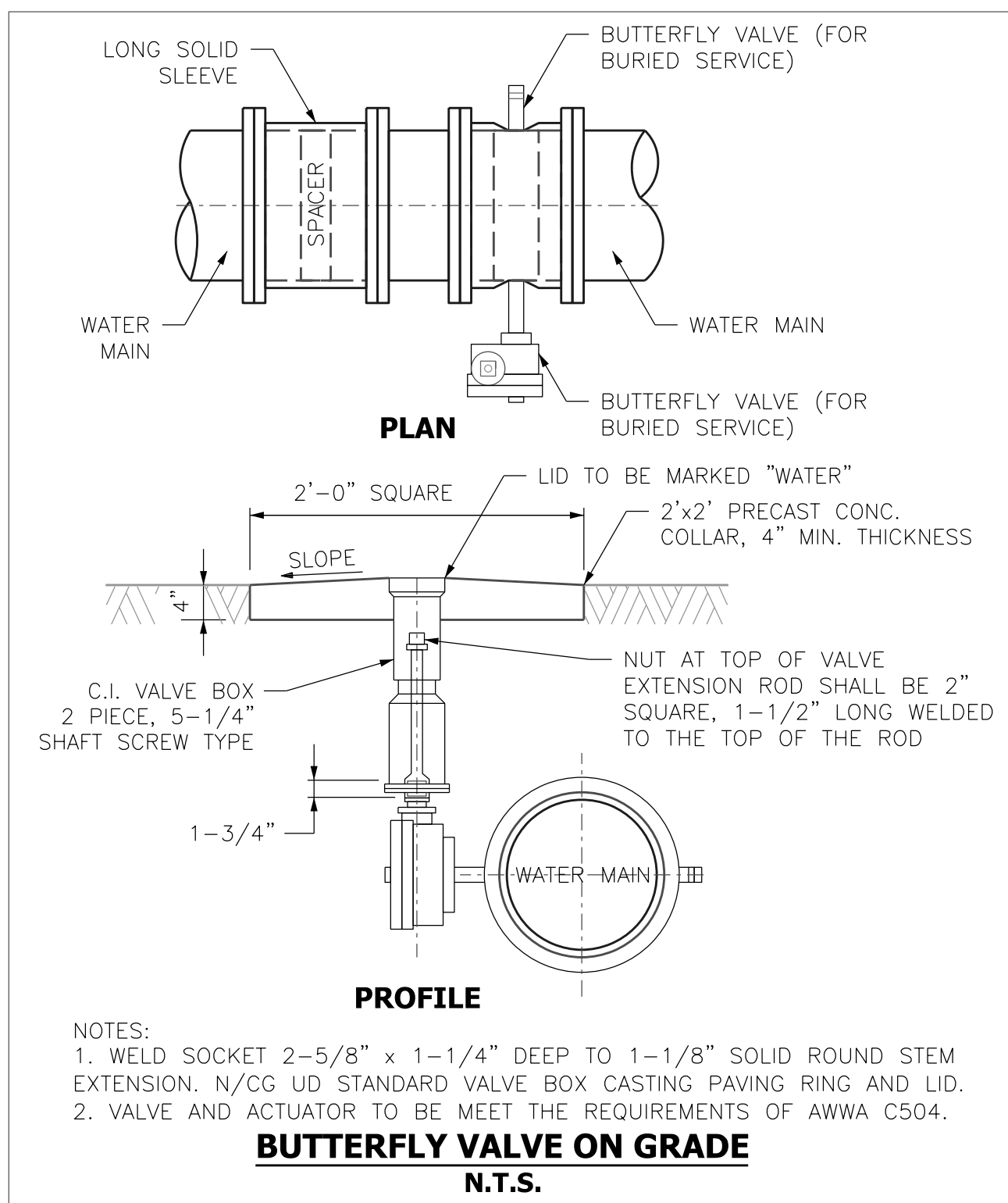
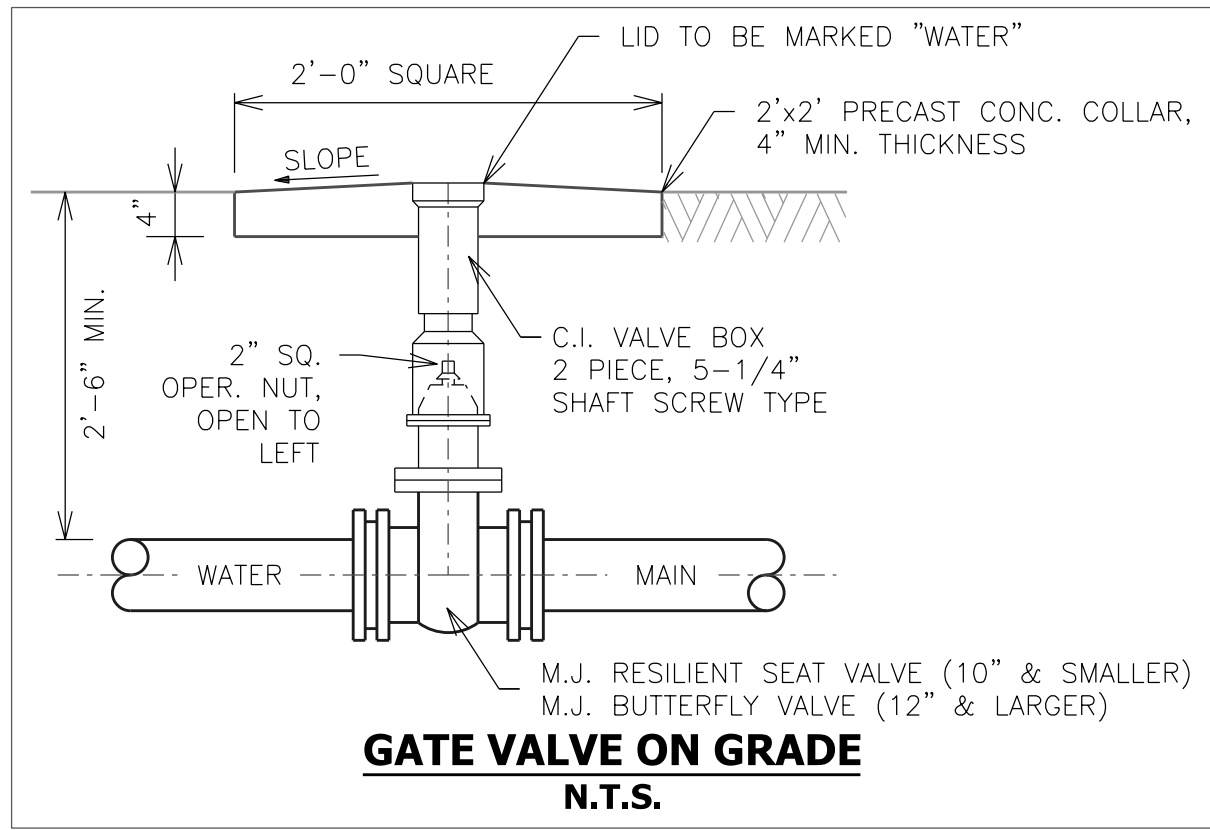
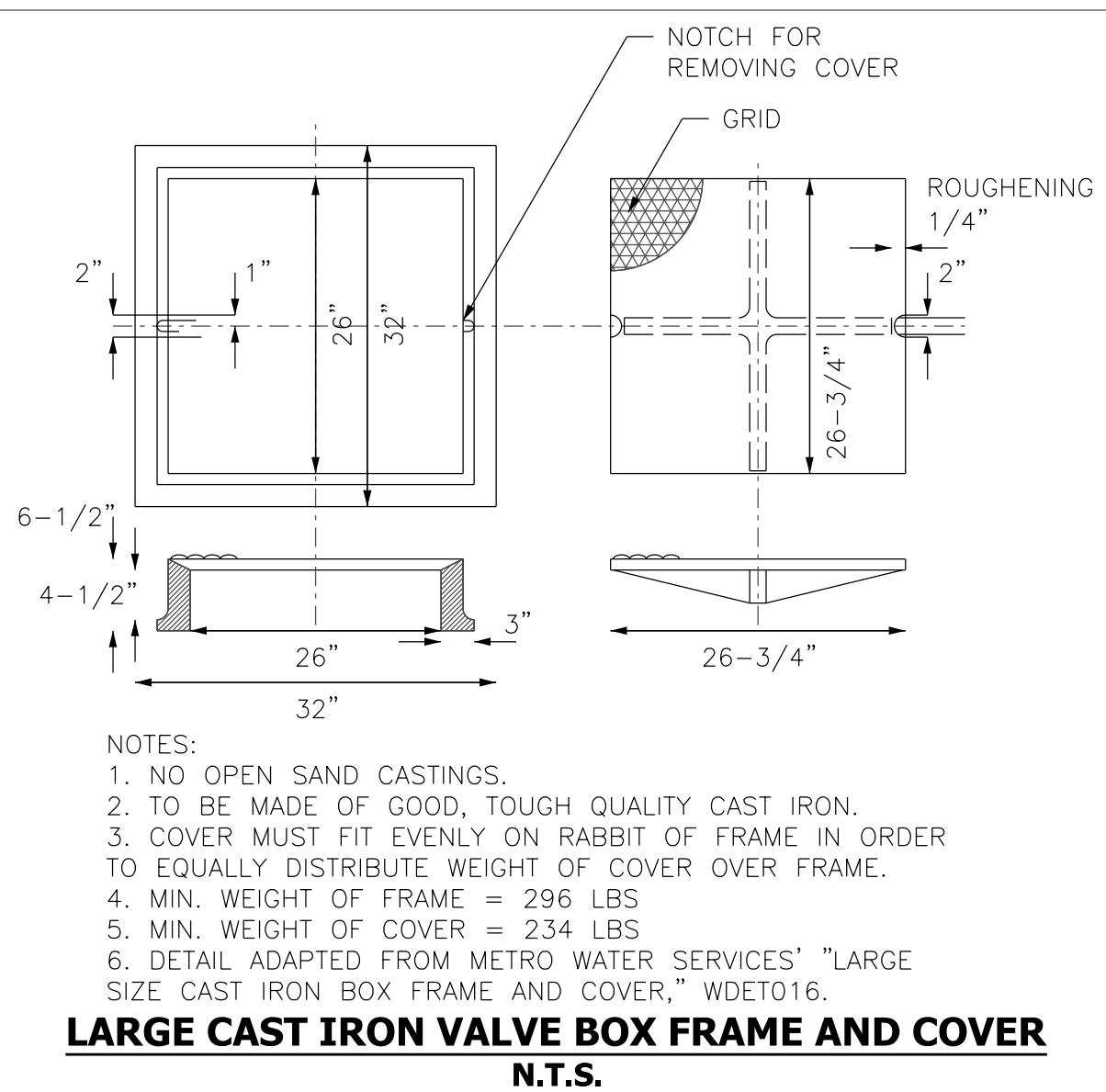
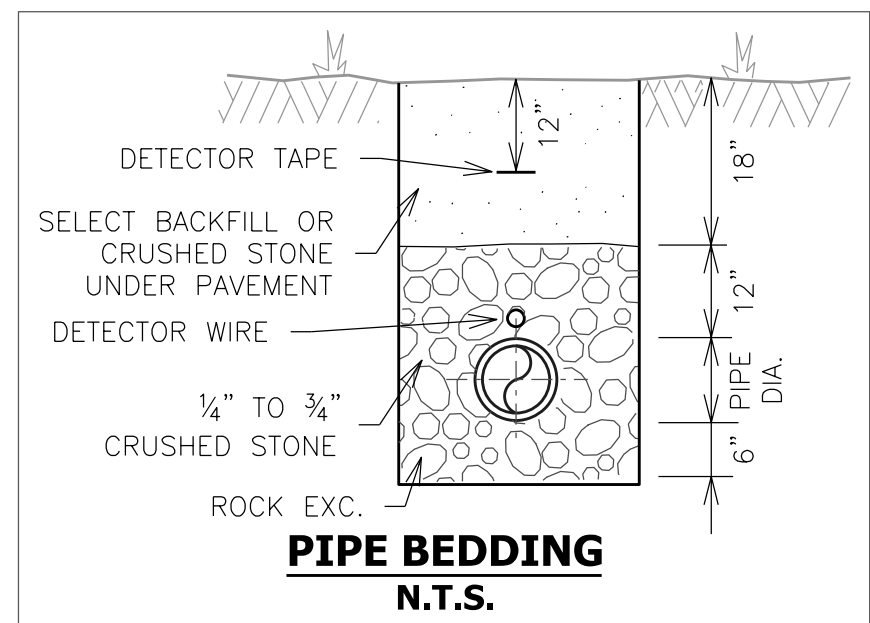
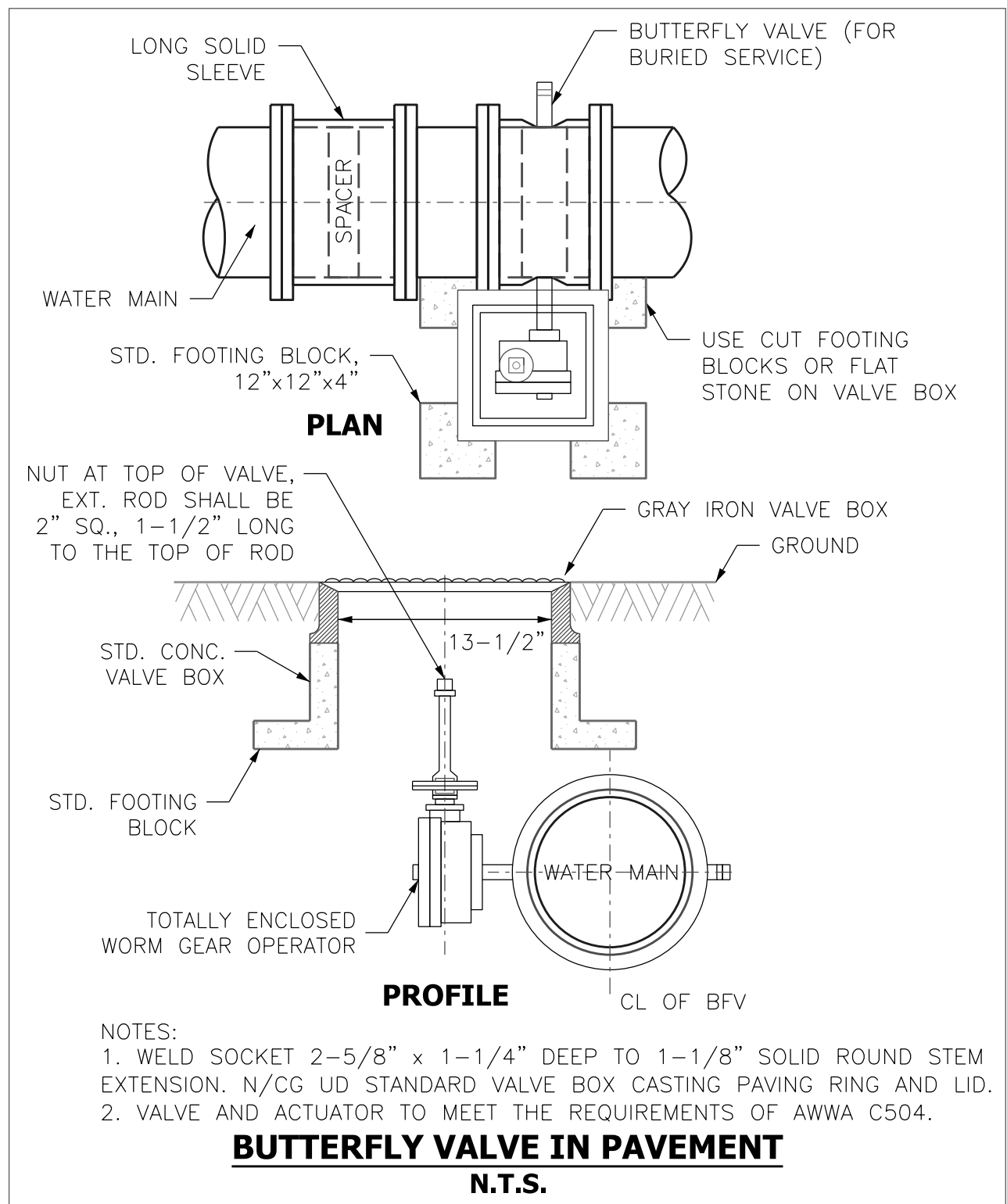
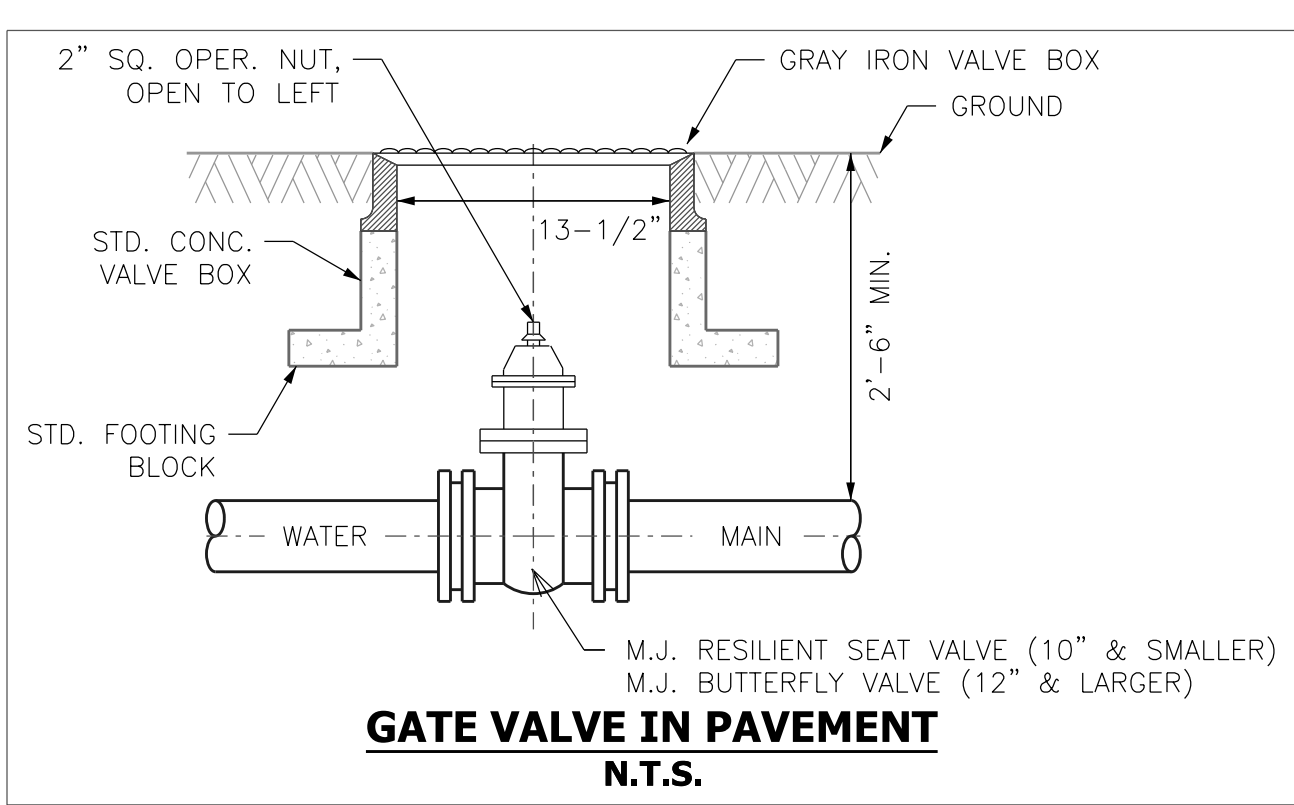
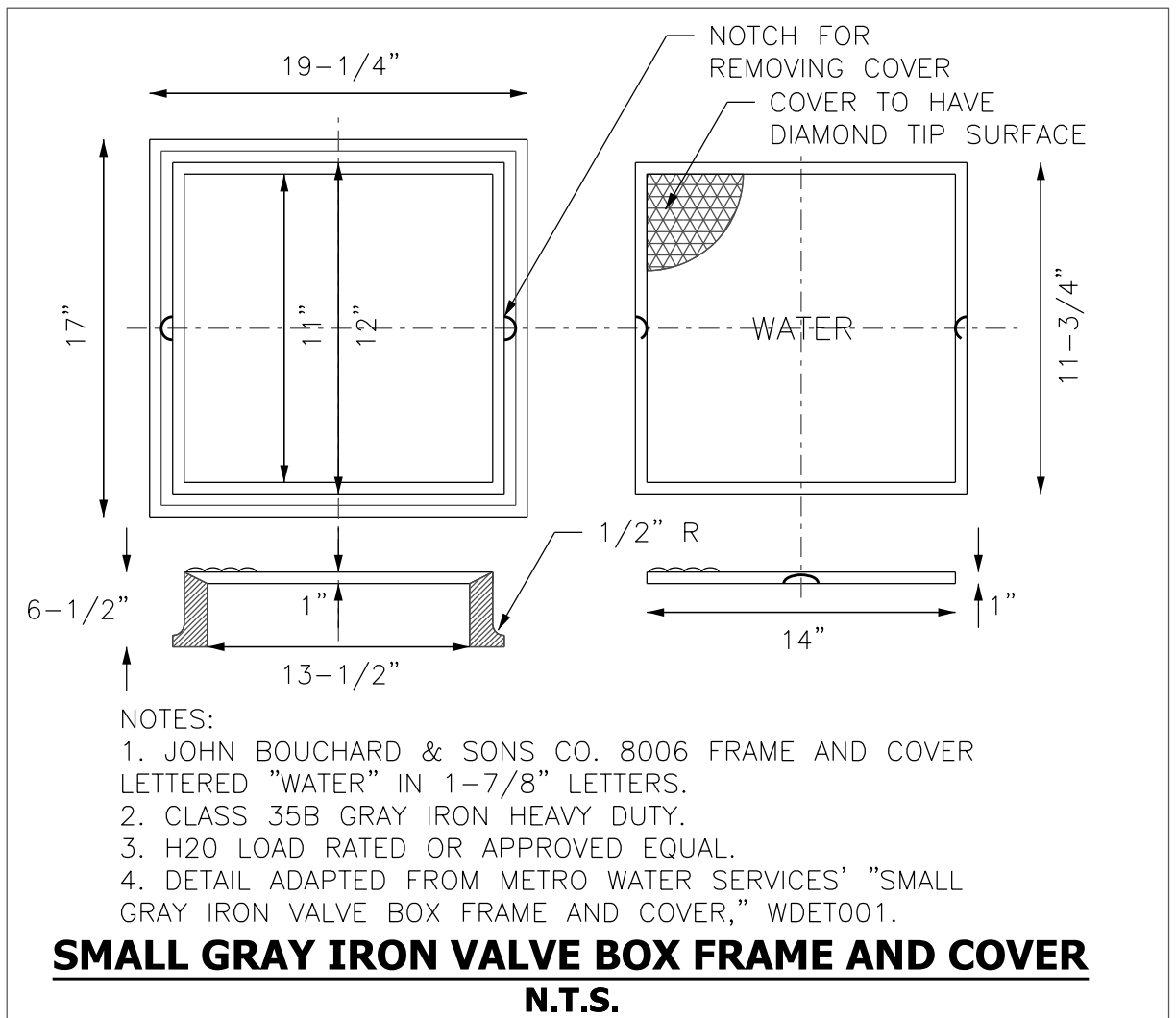
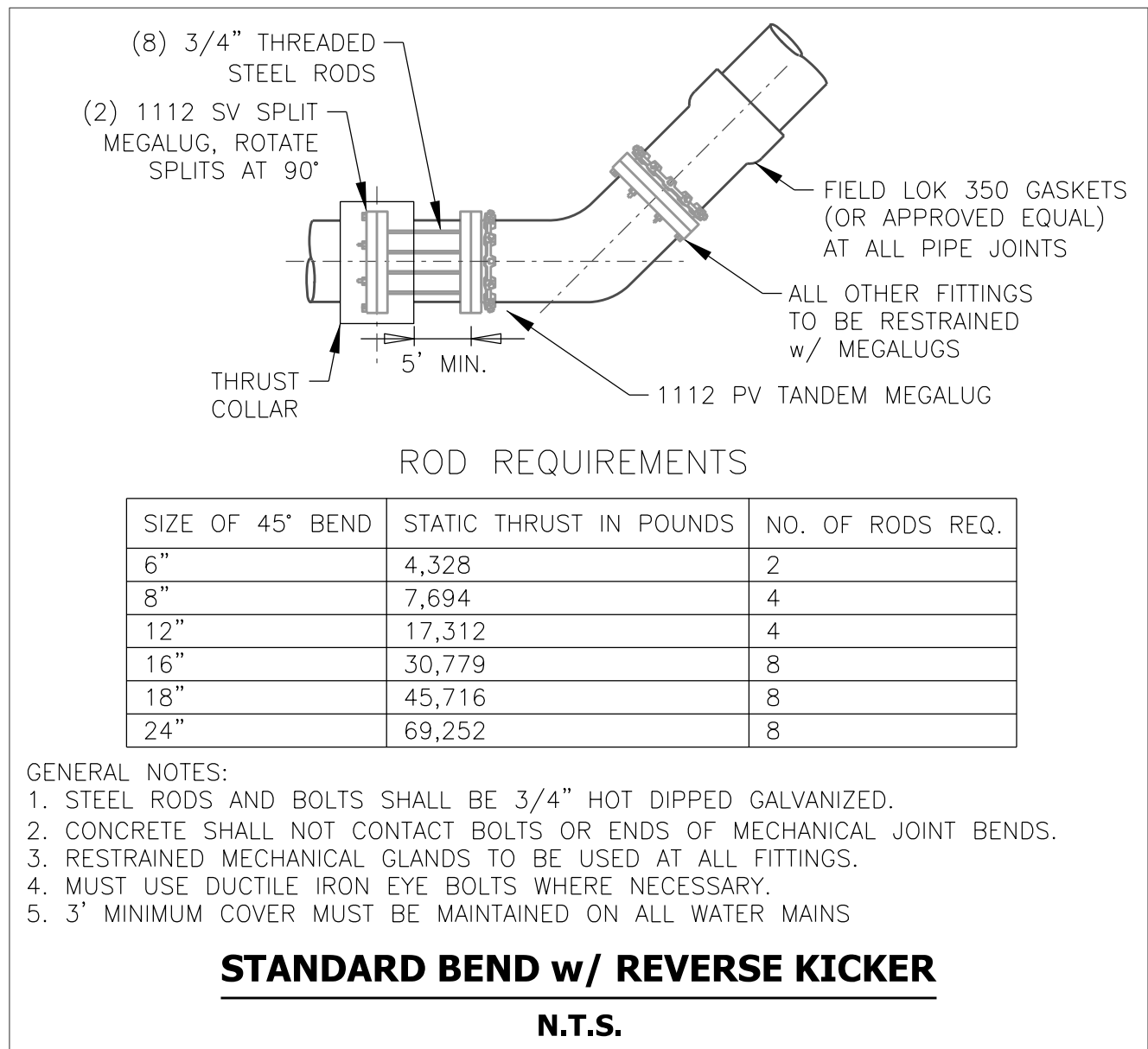
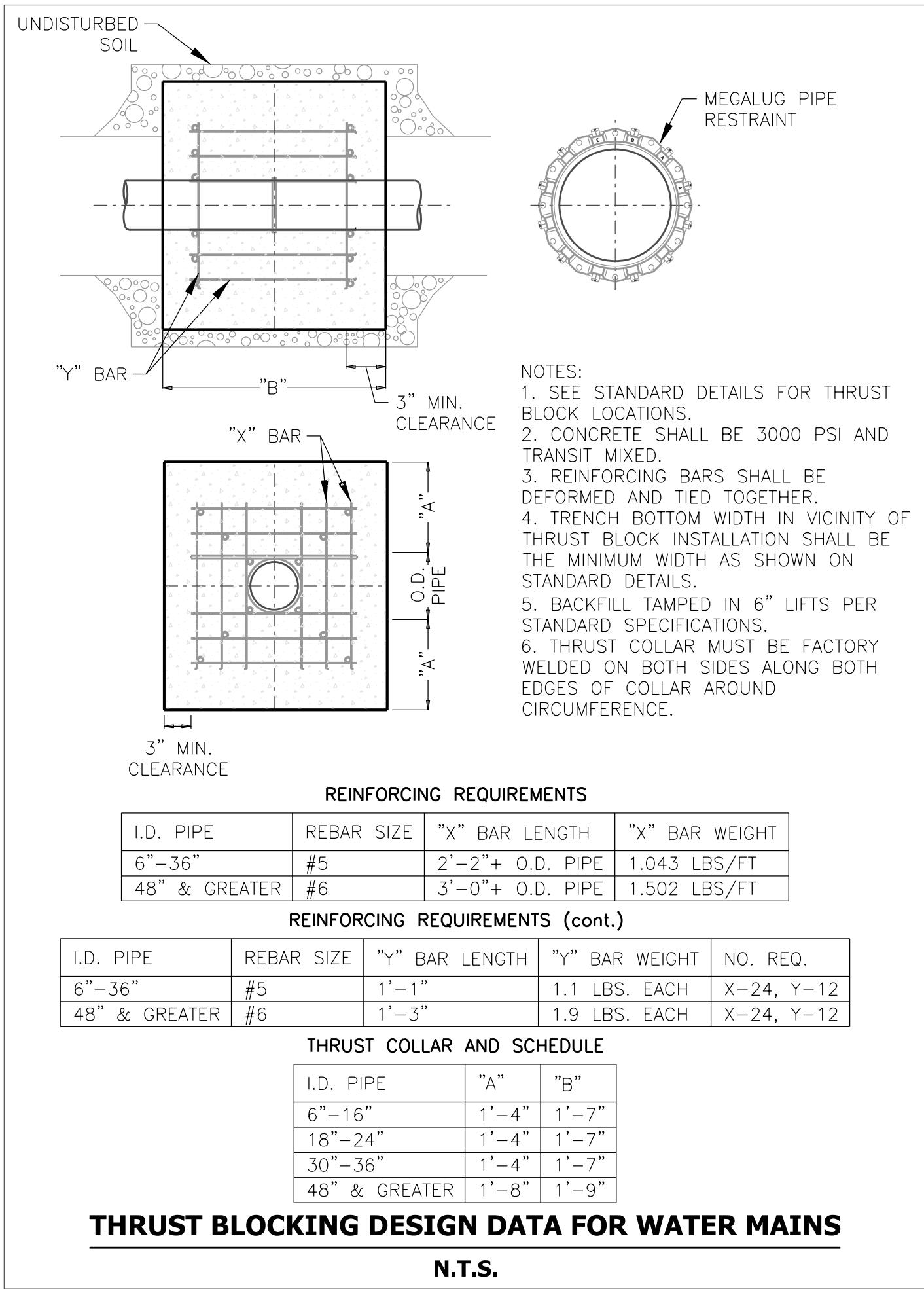
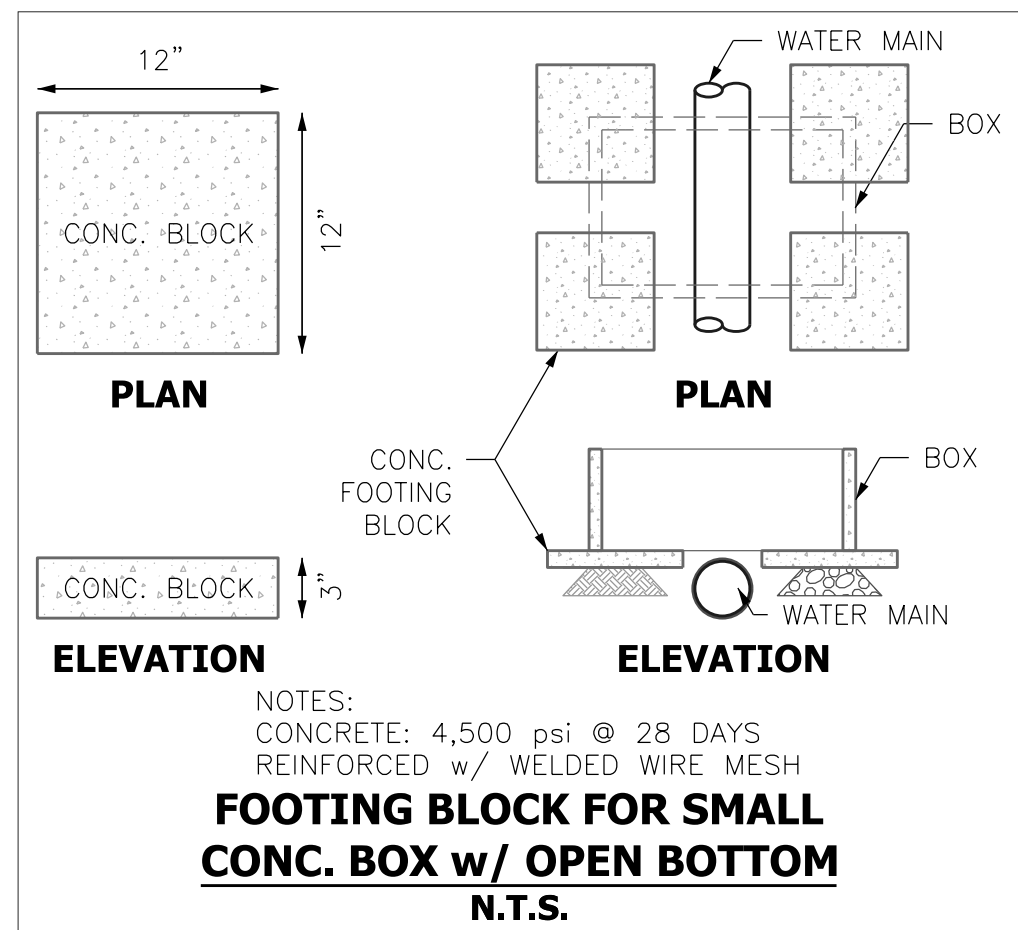
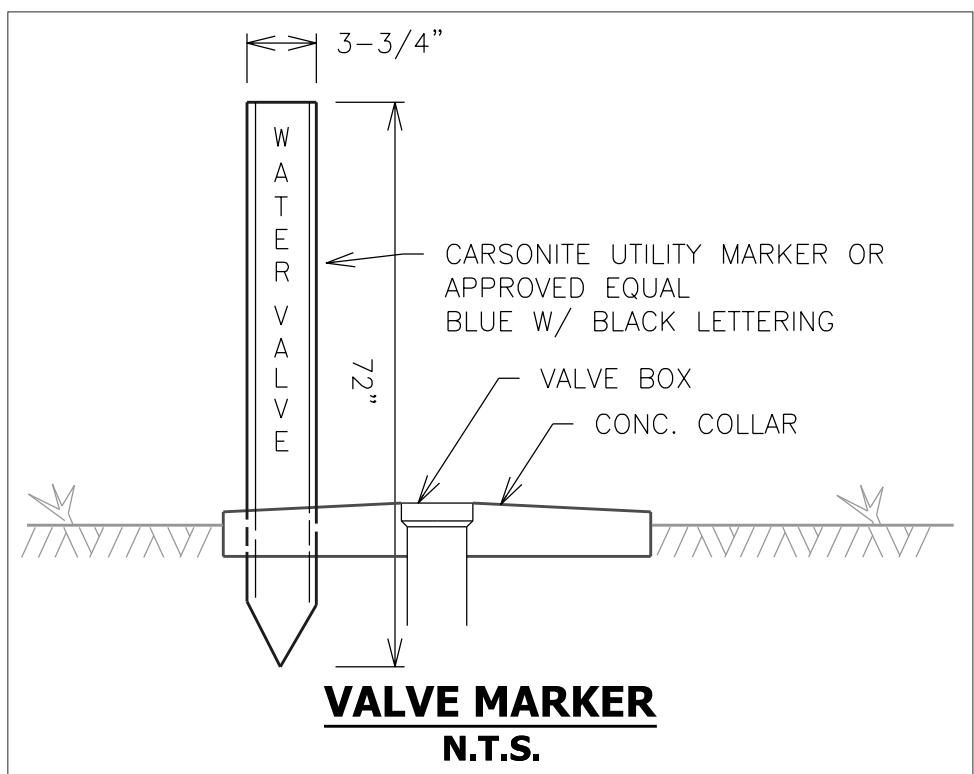
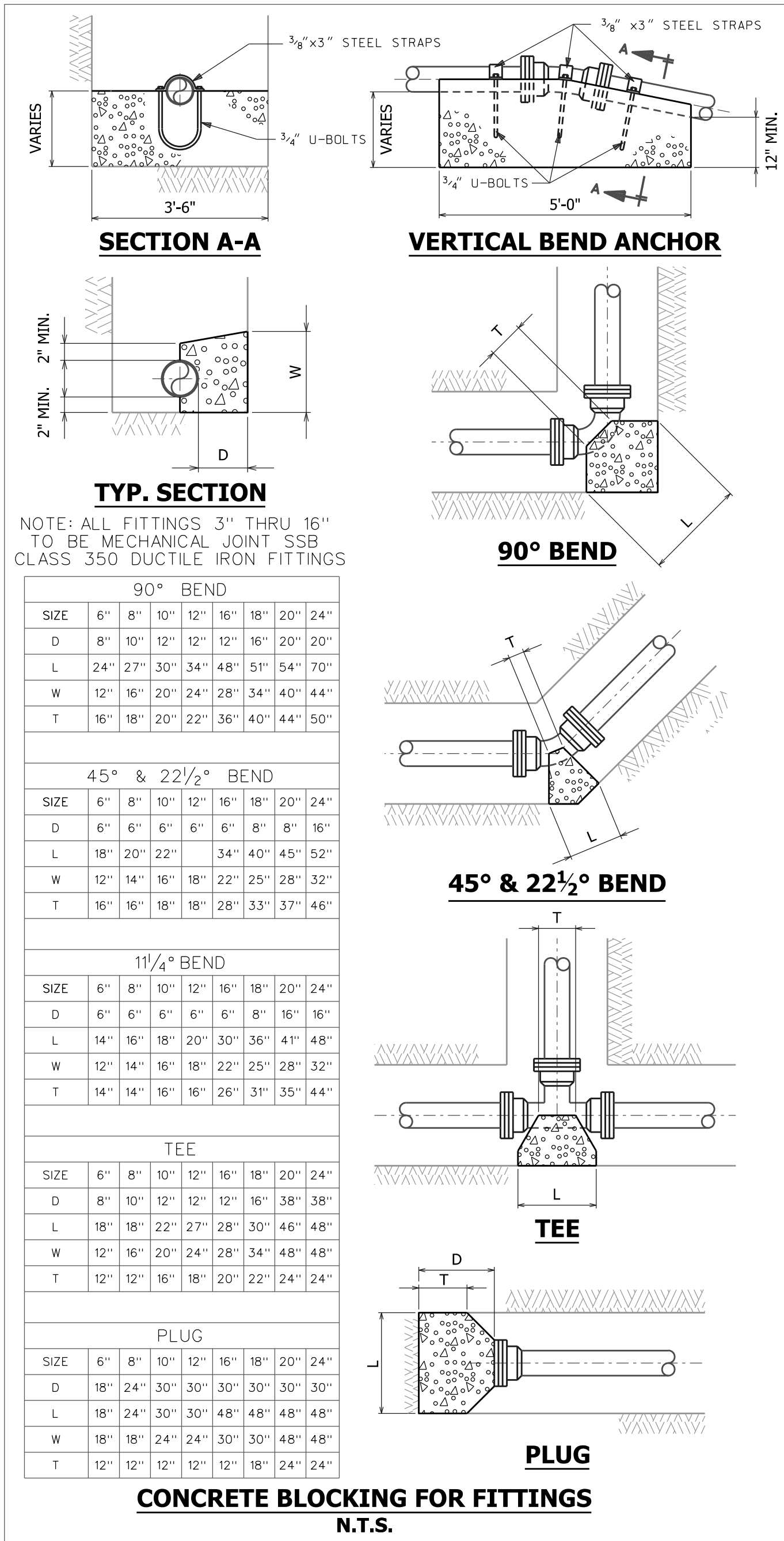
DATE	DESCRIPTION	
JBS	JBS	BS
DESIGN	DRAWN	CHECKED

SCALE (H): 1/2" = 1'-0"

SCALE (V): N/A

JOB No.: Contract 122

DATE: May 2022



DATE	DESCRIPTION
JBS	JBS
DESIGN	DRAWN
SCALE (H):	None
SCALE (V):	None
JOB No.:	Contract 122
DATE:	May 2022